

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 8, 2006, 19:42:58 ; Search time 174 Seconds
(without alignments)
751.613 Million cell updates/sec

Perfect score: 1747
Sequence: 1 MNQLSFLFLFIATTGWSGD.....HVGYSRSSREITEAAVLLFYR 313

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Published Applications AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				
Result	No.	Score	Query Match Length DB	ID Description
27	1747	100.0	313	3 US-09-997-428-414 Sequence 414, Appl
58	1747	100.0	313	3 US-09-771-503-8 Sequence 8, Appli
563	1747	100.0	313	4 US-10-174-587-294 Sequence 294, App
627	1747	100.0	313	4 US-10-063-742-88 Sequence 88, Appl
733	1747	100.0	313	4 US-10-429-160-62 Sequence 62, Appl
743	1747	100.0	313	5 US-10-972-317-88 Sequence 88, Appl
745	1747	100.0	313	5 US-10-950-374-414 Sequence 414, App
748	1738	99.5	313	5 US-10-785-720-1 Sequence 1, Appli
749	1738	99.5	313	5 US-10-991-321-12 Sequence 12, Appl
750	1733	99.2	313	3 US-09-973-278-156 Sequence 156, App
751	1733	99.2	314	3 US-09-983-802-155 Sequence 155, App
752	1733	99.2	314	3 US-09-984-490-155 Sequence 155, App
1216	1449.5	83.0	325	4 US-10-174-587-520 Sequence 520, App
1273	1449.5	83.0	325	5 US-10-785-720-3 Sequence 3, Appli
1274	1449.5	83.0	325	5 US-10-991-321-36 Sequence 36, Appl
1278	1444.5	82.7	325	3 US-09-981-353-32 Sequence 32, Appl
1279	1444.5	82.7	325	3 US-09-771-503-1 Sequence 1, Appli
1280	1427	81.7	313	3 US-09-771-503-9 Sequence 9, Appli
1281	939	53.7	172	4 US-10-276-774-1803 Sequence 1803, Ap
1282	837.5	47.9	225	5 US-10-478-519-9 Sequence 9, Appli
1283	545	31.2	103	4 US-10-425-115-350716 Sequence 350716,
1284	112	6.4	19	3 US-09-983-802-325 Sequence 325, App
1285	112	6.4	19	3 US-09-984-490-325 Sequence 325, App
1286	112	6.4	19	3 US-09-973-278-320 Sequence 320, App
1287	110.5	6.3	1296	5 US-10-509-009-2 Sequence 2, Appli
1288	109.5	6.3	241	6 US-11-097-143-11670 Sequence 11670, A
1289	109	6.2	307	5 US-10-311-827-20 Sequence 20, Appl
1290	109	6.2	491	4 US-10-017-724-6 Sequence 6, Appli

1291	109	6.2	491	5	US-10-887-775-2	Sequence 2, Appli
1292	109	6.2	491	5	US-10-287-436A-473	Sequence 473, App
1293	109	6.2	491	5	US-10-287-436A-550	Sequence 550, App
1294	109	6.2	491	5	US-10-287-436A-1170	Sequence 1170, Ap
1295	109	6.2	491	5	US-10-287-436A-1241	Sequence 1241, Ap
1296	108	6.2	488	3	US-09-919-039-33	Sequence 33, Appl
1297	106.5	6.1	649	4	US-10-282-122A-51186	Sequence 51186, A
1298	106	6.1	1294	4	US-10-087-192-2022	Sequence 2022, Ap
1299	106	6.1	1294	5	US-10-723-860-2102	Sequence 2102, Ap
1300	106	6.1	1294	5	US-10-509-009-4	Sequence 4, Appli
1301	105.5	6.0	616	4	US-10-369-493-5329	Sequence 5329, Ap
1302	102.5	5.9	207	4	US-10-424-599-231451	Sequence 231451,
1303	102.5	5.9	496	4	US-10-215-224-7	Sequence 7, Appli
1304	102.5	5.9	496	4	US-10-214-812-7	Sequence 7, Appli
1305	102.5	5.9	496	4	US-10-263-677-9	Sequence 9, Appli
1306	102.5	5.9	496	4	US-10-789-222-16	Sequence 16, Appl
1307	102.5	5.9	496	5	US-10-955-218-9	Sequence 9, Appli
1308	101.5	5.8	1573	4	US-10-331-053-63	Sequence 63, Appl
1309	101	5.8	363	6	US-11-097-143-42102	Sequence 42102, A
1310	99	5.7	460	3	US-09-892-877-231	Sequence 231, App
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1316	99	5.7	460	4	US-10-460-125-4	Sequence 4, Appli
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1319	99	5.7	460	4	US-10-351-161A-2	Sequence 2, Appli
1320	99	5.7	460	5	US-10-289-490-6	Sequence 6, Appli
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1323	97.5	5.6	503	4	US-10-225-060-11	Sequence 11, Appl
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1326	97.5	5.6	509	4	US-10-215-224-2	Sequence 2, Appli
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1335	96.5	5.5	269	3	US-09-966-546-26	Sequence 26, Appl
1336	96.5	5.5	269	3	US-09-966-546-28	Sequence 28, Appl
1337	96.5	5.5	269	3	US-09-966-545-26	Sequence 26, Appl
1338	96.5	5.5	269	3	US-09-966-545-28	Sequence 28, Appl
1339	96.5	5.5	269	3	US-09-965-212-26	Sequence 26, Appl
1340	96.5	5.5	269	3	US-09-965-212-28	Sequence 28, Appl
1341	96.5	5.5	269	4	US-10-189-940-26	Sequence 26, Appl
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1343	96.5	5.5	269	4	US-10-189-940-150	Sequence 150, App
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1373	96.5	5.5	461	3	US-09-997-428-314	Sequence 314, App
1419	96.5	5.5	461	5	US-10-491-997-20	Sequence 20, Appl
1420	96.5	5.5	461	5	US-10-950-374-314	Sequence 314, App
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1422	96	5.5	3010	4	US-10-333-449A-34	Sequence 34, Appl
1423	95.5	5.5	450	3	US-09-826-752-2	Sequence 2, Appli
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1427	95	5.4	725	4	US-10-282-122A-65746	Sequence 65746, A
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1429	94	5.4	216	3	US-09-826-734-154	Sequence 154, App
1430	93.5	5.4	256	4	US-10-425-115-313490	Sequence 313490,
1431	93.5	5.4	934	4	US-10-425-115-342745	Sequence 342745,
1432	93.5	5.4	1701	6	US-11-097-143-18063	Sequence 18063, A
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1435	93	5.3	429	5	US-10-886-023-15
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1438	93	5.3	429	5	US-10-886-023-22
1439	93	5.3	429	5	US-10-886-023-23
1440	93	5.3	429	5	US-10-886-023-29
1441	93	5.3	429	5	US-10-886-023-30
1442	93	5.3	429	5	US-10-886-903-13
1443	93	5.3	429	5	US-10-886-903-14
1444	93	5.3	429	5	US-10-886-905-13
1445	93	5.3	429	5	US-10-886-905-14
1446	92.5	5.3	1290	4	US-10-331-053-66
			219	3	US-09-832-355A-22

Sequence 15, Appl
Sequence 16, Appl
Sequence 22, Appl
Sequence 23, Appl
Sequence 29, Appl
Sequence 30, Appl
Sequence 13, Appl
Sequence 14, Appl
Sequence 13, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 66, Appl
Sequence 22, Appl

Search completed: February 8, 2006, 19:47:01
Job time : 200 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 8, 2006, 19:44:04 ; Search time 17 Seconds
(without alignments)
241.609 Million cell updates/sec

Perfect score: 1747
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 97014 seqs, 13122538 residues

Total number of hits satisfying chosen parameters: 97014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Published Applications_AA_New:*
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2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
2	1747	100.0	313	7	US-11-102-240-88 Sequence 88, Appl
3	113.5	6.5	445	6	US-10-995-561-746 Sequence 746, App
4	109	6.2	344	6	US-10-995-561-740 Sequence 740, App
5	109	6.2	344	6	US-10-995-561-744 Sequence 744, App
6	109	6.2	391	6	US-10-995-561-739 Sequence 739, App
7	109	6.2	432	6	US-10-995-561-738 Sequence 738, App
8	109	6.2	457	6	US-10-995-561-741 Sequence 741, App
9	109	6.2	491	6	US-10-995-561-743 Sequence 743, App
10	109	6.2	512	6	US-10-995-561-745 Sequence 745, App
11	96.5	5.5	496	7	US-11-067-121-3 Sequence 3, Appli
12	94	5.4	191	6	US-10-055-877-87 Sequence 87, Appl
13	94	5.4	191	6	US-10-453-372-916 Sequence 916, App
14	94	5.4	203	6	US-10-055-877-99 Sequence 99, Appl
15	93	5.3	429	6	US-10-886-504-3 Sequence 3, Appli
16	93	5.3	429	6	US-10-886-504-4 Sequence 4, Appli
17	93	5.3	429	6	US-10-886-505-3 Sequence 3, Appli
18	93	5.3	429	6	US-10-886-505-4 Sequence 4, Appli
19	93	5.3	429	6	US-10-886-527-3 Sequence 3, Appli
20	93	5.3	429	6	US-10-886-527-4 Sequence 4, Appli
22	92	5.3	496	7	US-11-067-121-12 Sequence 12, Appl
23	92	5.3	496	7	US-11-129-076-7 Sequence 7, Appli
24	91	5.2	493	7	US-11-067-121-10 Sequence 10, Appl
25	91	5.2	527	6	US-10-886-504-9 Sequence 9, Appli
26	91	5.2	527	6	US-10-886-504-10 Sequence 10, Appl
27	91	5.2	527	6	US-10-886-505-9 Sequence 9, Appli
28	91	5.2	527	6	US-10-886-505-10 Sequence 10, Appl

29	91	5.2	527	6	US-10-886-527-9	Sequence 9, Appli
30	91	5.2	527	6	US-10-886-527-10	Sequence 10, Appl
31	90.5	5.2	244	6	US-10-821-234-1264	Sequence 1264, Ap
32	90.5	5.2	495	7	US-11-129-076-8	Sequence 8, Appli
33	90	5.2	429	6	US-10-886-504-2	Sequence 2, Appli
34	90	5.2	429	6	US-10-886-504-13	Sequence 13, Appl
35	90	5.2	429	6	US-10-886-505-2	Sequence 2, Appli
36	90	5.2	429	6	US-10-886-505-13	Sequence 13, Appl
37	90	5.2	429	6	US-10-886-527-2	Sequence 2, Appli
38	90	5.2	429	6	US-10-886-527-13	Sequence 13, Appl
39	89	5.1	326	6	US-10-055-877-287	Sequence 287, App
40	89	5.1	326	6	US-10-055-877-295	Sequence 295, App
41	89	5.1	326	6	US-10-453-372-898	Sequence 898, App
42	88.5	5.1	326	6	US-11-000-463-382	Sequence 382, App
43	88.5	5.1	326	7	US-11-000-463-854	Sequence 854, App
44	88.5	5.1	339	6	US-10-517-939-154	Sequence 154, App
45	88	5.0	289	6	US-10-055-877-89	Sequence 89, Appl
46	88	5.0	289	6	US-10-453-372-918	Sequence 918, App
47	88	5.0	296	6	US-10-453-372-920	Sequence 920, App
48	88	5.0	299	6	US-10-055-877-97	Sequence 97, Appl
49	88	5.0	304	6	US-10-055-877-83	Sequence 83, Appl
50	88	5.0	308	6	US-10-055-877-85	Sequence 85, Appl
51	88	5.0	308	6	US-10-453-372-914	Sequence 914, App
52	88	5.0	316	6	US-10-453-372-924	Sequence 924, App
53	88	5.0	319	6	US-10-055-877-93	Sequence 93, Appl
54	88	5.0	319	6	US-10-055-877-288	Sequence 288, App
55	88	5.0	319	6	US-10-055-877-294	Sequence 294, App
56	88	5.0	319	6	US-10-453-372-912	Sequence 912, App
57	88	5.0	319	6	US-10-453-372-932	Sequence 932, App
58	88	5.0	326	6	US-10-055-877-286	Sequence 286, App
59	88	5.0	326	6	US-10-055-877-293	Sequence 293, App
60	88	5.0	326	6	US-10-453-372-930	Sequence 930, App
61	88	5.0	527	6	US-10-886-504-8	Sequence 8, Appli
62	88	5.0	527	6	US-10-886-505-8	Sequence 8, Appli
63	88	5.0	527	6	US-10-886-527-8	Sequence 8, Appli
64	87.5	5.0	217	6	US-10-453-372-900	Sequence 900, App
65	87.5	5.0	217	6	US-10-453-372-902	Sequence 902, App
66	87.5	5.0	217	6	US-10-453-372-906	Sequence 906, App
67	87.5	5.0	217	6	US-10-453-372-908	Sequence 908, App
68	87.5	5.0	283	6	US-10-055-877-91	Sequence 91, Appl
69	87.5	5.0	283	6	US-10-453-372-922	Sequence 922, App
70	87	5.0	266	6	US-10-055-877-95	Sequence 95, Appl
71	87	5.0	266	6	US-10-453-372-926	Sequence 926, App
73	87	5.0	493	7	US-11-067-121-20	Sequence 20, Appl
74	86.5	5.0	2556	7	US-11-050-346-67	Sequence 67, Appl
75	84.5	4.8	725	6	US-10-467-657-1536	Sequence 1536, Ap
76	84	4.8	399	6	US-10-926-709-17	Sequence 17, Appl
77	84	4.8	530	6	US-10-886-504-1	Sequence 1, Appli
78	84	4.8	530	6	US-10-886-505-1	Sequence 1, Appli
79	84	4.8	530	6	US-10-886-527-1	Sequence 1, Appli
80	84	4.8	551	6	US-10-886-504-5	Sequence 5, Appli
81	84	4.8	551	6	US-10-886-505-5	Sequence 5, Appli
82	84	4.8	551	6	US-10-886-527-5	Sequence 5, Appli
83	83.5	4.8	250	7	US-11-054-515-1616	Sequence 1616, Ap
84	83.5	4.8	1767	6	US-10-995-561-911	Sequence 911, App
85	83.5	4.8	1767	6	US-10-995-561-914	Sequence 914, App
86	83.5	4.8	1806	6	US-10-995-561-912	Sequence 912, App
87	83.5	4.8	1806	6	US-10-995-561-915	Sequence 915, App
88	83.5	4.8	1818	6	US-10-995-561-910	Sequence 910, App
89	83.5	4.8	1818	6	US-10-995-561-913	Sequence 913, App
90	83	4.8	476	7	US-11-024-959-292	Sequence 292, App
91	83	4.8	499	7	US-11-024-959-293	Sequence 293, App
92	83	4.8	984	6	US-10-995-561-629	Sequence 629, App
93	83	4.8	2176	7	US-11-193-561-25	Sequence 25, Appl
94	83	4.8	2176	7	US-11-193-771-25	Sequence 25, Appl
95	83	4.8	2176	7	US-11-193-789-25	Sequence 25, Appl
96	83	4.8	2176	7	US-11-193-806-25	Sequence 25, Appl
97	83	4.8	2176	7	US-11-193-857-25	Sequence 25, Appl
98	83	4.8	2217	7	US-11-193-561-38	Sequence 38, Appl
99	83	4.8	2217	7	US-11-193-771-38	Sequence 38, Appl
100	83	4.8	2217	7	US-11-193-789-38	Sequence 38, Appl
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103	83	4.8	2223	7	US-11-193-561-2	Sequence 2, Appli	176	77.5	4.4	483	6	US-10-630-203-8	Sequence 8, Appli
104	83	4.8	2223	7	US-11-193-771-2	Sequence 2, Appli	177	77.5	4.4	483	6	US-10-630-203-30	Sequence 30, Appl
105	83	4.8	2223	7	US-11-193-789-2	Sequence 2, Appli	179	77	4.4	261	7	US-11-123-817-3	Sequence 3, Appli
106	83	4.8	2223	7	US-11-193-806-2	Sequence 2, Appli	180	77	4.4	269	7	US-11-123-817-4	Sequence 4, Appli
107	83	4.8	2223	7	US-11-193-857-2	Sequence 2, Appli	181	77	4.4	277	7	US-11-123-817-6	Sequence 6, Appli
108	83	4.8	2296	6	US-10-995-561-633	Sequence 633, App	182	77	4.4	370	6	US-10-641-678-35	Sequence 35, Appl
109	83	4.8	2296	7	US-11-193-561-23	Sequence 23, Appl	183	77	4.4	437	6	US-10-821-234-1549	Sequence 1549, Ap
110	83	4.8	2296	7	US-11-193-771-23	Sequence 23, Appl	184	77	4.4	437	7	US-11-123-817-2	Sequence 2, Appli
111	83	4.8	2296	7	US-11-193-789-23	Sequence 23, Appl	185	77	4.4	453	6	US-10-878-556A-29	Sequence 29, Appl
112	83	4.8	2296	7	US-11-193-806-23	Sequence 23, Appl	186	77	4.4	453	7	US-11-123-817-5	Sequence 5, Appli
113	83	4.8	2296	7	US-11-193-857-23	Sequence 23, Appl	187	77	4.4	459	6	US-10-641-678-72	Sequence 72, Appl
114	83	4.8	2330	7	US-11-193-561-21	Sequence 21, Appl	188	77	4.4	720	6	US-10-495-662-22	Sequence 22, Appl
115	83	4.8	2330	7	US-11-193-771-21	Sequence 21, Appl	189	76.5	4.4	654	6	US-10-510-947-6	Sequence 6, Appli
116	83	4.8	2330	7	US-11-193-789-21	Sequence 21, Appl	190	76	4.4	1907	7	US-11-039-398-25	Sequence 25, Appl
117	83	4.8	2330	7	US-11-193-806-21	Sequence 21, Appl	191	75.5	4.3	406	7	US-11-169-041-183	Sequence 183, App
118	83	4.8	2330	7	US-11-193-857-21	Sequence 21, Appl	193	75.5	4.3	457	6	US-10-821-234-1185	Sequence 1185, Ap
119	83	4.8	2355	6	US-10-995-561-623	Sequence 623, App	194	75.5	4.3	530	7	US-11-110-082-32	Sequence 32, Appl
120	83	4.8	2355	6	US-10-995-561-627	Sequence 627, App	195	75.5	4.3	705	6	US-10-821-234-1532	Sequence 1532, Ap
121	83	4.8	2355	7	US-11-193-561-19	Sequence 19, Appl	196	75.5	4.3	710	7	US-11-089-551A-33	Sequence 33, Appl
122	83	4.8	2355	7	US-11-193-771-19	Sequence 19, Appl	197	75	4.3	119	6	US-10-834-397-21	Sequence 21, Appl
123	83	4.8	2355	7	US-11-193-789-19	Sequence 19, Appl	198	75	4.3	334	6	US-10-895-064-26	Sequence 26, Appl
124	83	4.8	2355	7	US-11-193-806-19	Sequence 19, Appl	199	75	4.3	585	6	US-10-878-556A-42	Sequence 42, Appl
125	83	4.8	2355	7	US-11-193-857-19	Sequence 19, Appl	200	75	4.3	607	7	US-11-167-856-18	Sequence 18, Appl
126	83	4.8	2384	6	US-10-821-234-1545	Sequence 1545, Ap	201	74.5	4.3	326	6	US-10-055-877-289	Sequence 289, App
127	83	4.8	2386	6	US-10-995-561-626	Sequence 626, App	202	74.5	4.3	326	6	US-10-055-877-297	Sequence 297, App
128	83	4.8	2421	7	US-11-193-561-17	Sequence 17, Appl	203	74.5	4.3	683	7	US-11-103-957-84	Sequence 84, Appl
129	83	4.8	2421	7	US-11-193-771-17	Sequence 17, Appl	204	74.5	4.3	984	7	US-11-113-424-60	Sequence 60, Appl
130	83	4.8	2421	7	US-11-193-789-17	Sequence 17, Appl	205	74	4.2	240	7	US-11-170-653-38	Sequence 38, Appl
131	83	4.8	2421	7	US-11-193-806-17	Sequence 17, Appl	206	74	4.2	241	7	US-11-170-653-35	Sequence 35, Appl
132	83	4.8	2421	7	US-11-193-857-17	Sequence 17, Appl	207	74	4.2	358	6	US-10-517-939-182	Sequence 182, App
133	83	4.8	2477	7	US-11-193-561-15	Sequence 15, Appl	208	73.5	4.2	347	6	US-10-517-939-222	Sequence 222, App
134	83	4.8	2477	7	US-11-193-771-15	Sequence 15, Appl	209	73.5	4.2	365	7	US-11-052-554A-223	Sequence 223, App
135	83	4.8	2477	7	US-11-193-789-15	Sequence 15, Appl	210	73.5	4.2	500	6	US-10-517-939-174	Sequence 174, App
136	83	4.8	2477	7	US-11-193-806-15	Sequence 15, Appl	211	73.5	4.2	505	6	US-10-641-678-68	Sequence 68, Appl
137	83	4.8	2477	7	US-11-193-857-15	Sequence 15, Appl	212	73	4.2	471	7	US-11-024-959-419	Sequence 419, App
138	82.5	4.7	213	6	US-10-453-372-928	Sequence 928, App	214	73	4.2	564	7	US-11-033-039-1209	Sequence 1209, Ap
139	82.5	4.7	217	6	US-10-453-372-910	Sequence 910, App	215	73	4.2	627	6	US-10-873-528-191	Sequence 191, App
140	82.5	4.7	1185	6	US-10-877-346-7	Sequence 7, Appli	216	73	4.2	711	6	US-10-517-939-4	Sequence 4, Appli
141	82.5	4.7	1874	6	US-10-821-234-1182	Sequence 1182, Ap	217	73	4.2	805	6	US-10-518-599-2	Sequence 2, Appli
142	82.5	4.7	3011	6	US-10-985-205-3	Sequence 3, Appli	218	73	4.2	805	6	US-10-957-880-1	Sequence 1, Appli
143	82	4.7	463	6	US-10-641-678-71	Sequence 71, Appl	219	73	4.2	905	7	US-11-124-368A-307	Sequence 307, App
144	81.5	4.7	319	6	US-10-055-877-290	Sequence 290, App	220	72.5	4.1	483	7	US-11-113-775A-1	Sequence 1, Appli
145	81.5	4.7	514	6	US-10-630-203-10	Sequence 10, Appl	221	72.5	4.1	483	7	US-11-113-799-1	Sequence 1, Appli
146	81.5	4.7	514	7	US-11-102-188-6	Sequence 6, Appli	222	72.5	4.1	485	6	US-10-630-203-4	Sequence 4, Appli
147	81.5	4.7	642	6	US-10-995-561-631	Sequence 631, App	223	72.5	4.1	485	7	US-11-103-037-2	Sequence 2, Appli
148	81.5	4.7	657	6	US-10-995-561-622	Sequence 622, App	224	72.5	4.1	485	7	US-11-195-538-2	Sequence 2, Appli
149	81.5	4.7	657	7	US-11-193-561-27	Sequence 27, Appl	225	72.5	4.1	544	6	US-10-821-234-889	Sequence 889, App
150	81.5	4.7	657	7	US-11-193-771-27	Sequence 27, Appl	226	72.5	4.1	549	6	US-10-995-561-909	Sequence 909, App
151	81.5	4.7	657	7	US-11-193-789-27	Sequence 27, Appl	227	72.5	4.1	1012	6	US-10-995-561-908	Sequence 908, App
152	81.5	4.7	657	7	US-11-193-806-27	Sequence 27, Appl	228	72	4.1	278	6	US-10-467-657-7386	Sequence 7386, Ap
153	81.5	4.7	657	7	US-11-193-857-27	Sequence 27, Appl	229	72	4.1	350	6	US-10-517-939-176	Sequence 176, App
154	81.5	4.7	3623	6	US-10-995-561-593	Sequence 593, App	230	72	4.1	350	6	US-10-517-939-192	Sequence 192, App
155	81	4.6	527	6	US-10-886-504-7	Sequence 7, Appli	231	72	4.1	354	6	US-10-517-939-216	Sequence 216, App
156	81	4.6	527	6	US-10-886-505-7	Sequence 7, Appli	232	72	4.1	483	7	US-11-024-959-413	Sequence 413, App
157	81	4.6	527	6	US-10-886-527-7	Sequence 7, Appli	233	72	4.1	483	7	US-11-024-959-414	Sequence 414, App
158	81	4.6	548	6	US-10-886-504-11	Sequence 11, Appl	234	72	4.1	501	6	US-10-630-203-27	Sequence 27, Appl
159	81	4.6	548	6	US-10-886-505-11	Sequence 11, Appl	235	72	4.1	501	6	US-10-630-203-28	Sequence 28, Appl
160	81	4.6	548	6	US-10-886-505-11	Sequence 11, Appl	236	72	4.1	234	7	US-11-052-554A-286	Sequence 286, App
161	80.5	4.6	217	6	US-10-453-372-904	Sequence 904, App	237	71.5	4.1	379	7	US-11-052-554A-296	Sequence 296, App
162	80.5	4.6	841	7	US-11-052-554A-102	Sequence 102, App	238	71.5	4.1	408	7	US-11-016-564-5	Sequence 5, Appli
163	80.5	4.6	868	6	US-10-995-561-792	Sequence 792, App	239	71.5	4.1	429	6	US-10-984-376-2	Sequence 2, Appli
164	80.5	4.6	2048	7	US-11-116-939-6	Sequence 6, Appli	240	71.5	4.1	434	6	US-10-467-657-346	Sequence 346, App
165	79.5	4.6	791	6	US-10-495-662-20	Sequence 20, Appl	241	71.5	4.1	506	6	US-10-641-678-69	Sequence 69, Appl
166	79.5	4.6	987	6	US-10-770-726-61	Sequence 61, Appl	242	71.5	4.1	516	6	US-10-641-678-59	Sequence 59, Appl
167	79.5	4.6	1055	7	US-11-169-041-155	Sequence 155, App	243	71.5	4.1	637	7	US-11-154-324-4	Sequence 4, Appli
168	79	4.5	448	7	US-11-052-554A-230	Sequence 230, App	244	71.5	4.1	696	7	US-11-052-554A-100	Sequence 100, App
169	79	4.5	626	6	US-10-512-184-49	Sequence 49, Appl	245	71.5	4.1	696	7	US-11-052-554A-101	Sequence 101, App
170	78.5	4.5	346	6	US-10-517-939-160	Sequence 160, App	246	71.5	4.1	3300	7	US-11-052-554A-133	Sequence 133, App
171	78.5	4.5	356	6	US-10-517-939-234	Sequence 234, App	247	71	4.1	225	6	US-10-517-939-172	Sequence 172, App
172	78.5	4.5	790	6	US-10-495-662-21	Sequence 21, Appl	248	71	4.1	248	7	US-11-054-515-1717	Sequence 1717, Ap
173	78	4.5	628	7	US-11-024-959-416	Sequence 416, App	249	71	4.1	248	7	US-11-054-515-1718	Sequence 1718, Ap
174	77.5	4.4	187	6	US-10-055-877-296	Sequence 296, App	250	71	4.1	248	7	US-11-054-515-1727	Sequence 1727, Ap
175	77.5	4.4	352	6	US-10-517-939-226	Sequence 226, App	251	71	4.1	248	7	US-11-054-515-1733	Sequence 1733, Ap

252	71	4.1	248	7	US-11-054-515-1734	Sequence 1734, Ap	325	68	3.9	844	7	US-11-127-877-40	Sequence 40, Appl
253	71	4.1	248	7	US-11-054-515-1741	Sequence 1741, Ap	326	68	3.9	943	7	US-11-103-957-79	Sequence 79, Appl
254	71	4.1	248	7	US-11-054-515-1879	Sequence 1879, Ap	327	68	3.9	2161	7	US-11-126-313-31	Sequence 31, Appl
255	71	4.1	254	6	US-10-485-517-208	Sequence 208, App	328	68	3.9	2759	6	US-10-453-372-168	Sequence 168, Appl
256	71	4.1	278	6	US-10-467-657-6726	Sequence 6726, Ap	329	67.5	3.9	130	7	US-11-049-536-270	Sequence 270, App
257	71	4.1	348	6	US-10-878-556A-111	Sequence 111, App	330	67.5	3.9	239	7	US-11-170-653-40	Sequence 40, Appl
258	71	4.1	348	6	US-10-517-939-300	Sequence 300, App	331	67.5	3.9	304	7	US-11-033-039-824	Sequence 824, App
259	71	4.1	470	7	US-11-024-959-297	Sequence 297, App	332	67.5	3.9	374	6	US-10-467-657-3088	Sequence 3088, Ap
260	71	4.1	671	7	US-11-150-883-6	Sequence 6, Appli	333	67.5	3.9	456	6	US-10-641-678-51	Sequence 51, Appl
261	71	4.1	671	7	US-11-150-887-6	Sequence 6, Appli	334	67.5	3.9	676	7	US-11-052-554A-41	Sequence 41, Appl
262	71	4.1	686	7	US-11-150-883-5	Sequence 5, Appli	335	67.5	3.9	686	7	US-11-144-630-71	Sequence 71, Appl
263	71	4.1	686	7	US-11-150-887-5	Sequence 5, Appli	336	67.5	3.9	771	6	US-10-821-234-1271	Sequence 1271, Ap
264	71	4.1	2280	7	US-11-022-562-211	Sequence 211, App	337	67.5	3.9	3567	6	US-10-453-372-1112	Sequence 1112, Ap
265	70.5	4.0	316	7	US-11-032-797-4	Sequence 4, Appli	338	67	3.8	201	7	US-11-170-653-23	Sequence 23, Appl
266	70.5	4.0	316	7	US-11-238-266-2	Sequence 2, Appli	339	67	3.8	228	7	US-11-170-653-39	Sequence 39, Appl
267	70.5	4.0	483	7	US-11-113-775A-2	Sequence 2, Appli	340	67	3.8	249	7	US-11-054-515-1305	Sequence 1305, Ap
268	70.5	4.0	483	7	US-11-113-799-2	Sequence 2, Appli	341	67	3.8	360	6	US-10-517-939-218	Sequence 218, App
269	70.5	4.0	485	6	US-10-630-203-12	Sequence 12, Appl	342	67	3.8	381	6	US-10-641-678-74	Sequence 74, Appl
270	70.5	4.0	485	7	US-11-113-775A-3	Sequence 3, Appli	343	67	3.8	405	6	US-10-467-657-2310	Sequence 2310, Ap
271	70.5	4.0	485	7	US-11-113-799-3	Sequence 3, Appli	344	67	3.8	441	6	US-10-995-561-638	Sequence 638, App
272	70.5	4.0	512	7	US-11-102-188-5	Sequence 5, Appli	345	67	3.8	441	6	US-10-995-561-639	Sequence 639, App
273	70.5	4.0	750	7	US-11-089-551A-32	Sequence 32, Appl	346	67	3.8	441	7	US-11-108-519-14	Sequence 14, Appl
274	70.5	4.0	928	6	US-10-880-144-4	Sequence 4, Appli	347	67	3.8	456	7	US-11-112-882-17	Sequence 17, Appl
275	70.5	4.0	995	7	US-11-113-424-62	Sequence 62, Appl	348	67	3.8	648	6	US-10-793-626-1060	Sequence 1060, Ap
276	70.5	4.0	1571	7	US-11-052-554A-2	Sequence 2, Appli	349	67	3.8	725	7	US-11-098-686-10189	Sequence 10189, A
277	70.5	4.0	3568	6	US-10-453-372-194	Sequence 194, App	350	67	3.8	855	7	US-11-024-959-506	Sequence 506, App
278	70.5	4.0	3570	6	US-10-453-372-178	Sequence 178, App	351	66.5	3.8	226	6	US-10-467-657-6038	Sequence 6038, Ap
279	70.5	4.0	3570	6	US-10-453-372-196	Sequence 196, App	352	66.5	3.8	234	6	US-10-467-657-430	Sequence 430, App
280	70.5	4.0	3570	6	US-10-453-372-198	Sequence 198, App	353	66.5	3.8	237	7	US-11-170-653-47	Sequence 47, Appl
281	70.5	4.0	3570	6	US-10-453-372-200	Sequence 200, App	354	66.5	3.8	360	7	US-11-064-246-7	Sequence 7, Appli
282	70.5	4.0	3570	6	US-10-453-372-202	Sequence 202, App	355	66.5	3.8	400	7	US-11-169-041-158	Sequence 158, App
283	70.5	4.0	3570	6	US-10-453-372-204	Sequence 204, App	356	66.5	3.8	406	6	US-10-453-372-188	Sequence 188, App
284	70.5	4.0	3570	6	US-10-453-372-206	Sequence 206, App	357	66.5	3.8	444	7	US-11-043-788-244	Sequence 244, App
285	70	4.0	248	7	US-11-054-515-1719	Sequence 1719, Ap	358	66.5	3.8	477	7	US-11-186-284-127	Sequence 127, App
286	70	4.0	248	7	US-11-054-515-1728	Sequence 1728, Ap	359	66.5	3.8	477	7	US-11-043-788-243	Sequence 243, App
287	70	4.0	248	7	US-11-054-515-1732	Sequence 1732, Ap	360	66.5	3.8	485	6	US-10-630-203-2	Sequence 2, Appli
288	70	4.0	248	7	US-11-054-515-1737	Sequence 1737, Ap	361	66.5	3.8	485	7	US-11-103-037-1	Sequence 1, Appli
289	70	4.0	259	6	US-10-495-662-23	Sequence 23, Appl	362	66.5	3.8	485	7	US-11-195-538-1	Sequence 1, Appli
290	70	4.0	346	6	US-10-517-939-170	Sequence 170, App	363	66.5	3.8	755	7	US-11-037-243-82	Sequence 82, Appl
291	70	4.0	527	7	US-11-010-239-46	Sequence 46, Appl	364	66.5	3.8	944	7	US-11-057-058-68	Sequence 68, Appl
292	70	4.0	531	7	US-11-010-239-32	Sequence 32, Appl	365	66.5	3.8	1016	7	US-11-103-957-41	Sequence 41, Appl
293	70	4.0	560	7	US-11-131-479-22	Sequence 22, Appl	366	66	3.8	119	6	US-10-925-366A-210	Sequence 210, App
294	70	4.0	1417	7	US-11-052-554A-8	Sequence 8, Appli	367	66	3.8	227	7	US-11-170-653-27	Sequence 27, Appl
295	69.5	4.0	232	6	US-10-467-657-5652	Sequence 5652, Ap	368	66	3.8	314	5	US-09-978-360A-478	Sequence 478, App
296	69.5	4.0	348	6	US-10-517-939-166	Sequence 166, App	369	66	3.8	360	6	US-10-517-939-184	Sequence 184, App
297	69.5	4.0	354	6	US-10-517-939-200	Sequence 200, App	370	66	3.8	466	7	US-11-156-084-42	Sequence 42, Appl
298	69.5	4.0	378	6	US-10-517-939-256	Sequence 256, App	371	66	3.8	558	7	US-11-133-360-19	Sequence 19, Appl
299	69.5	4.0	400	6	US-10-793-626-2774	Sequence 2774, Ap	372	66	3.8	558	7	US-11-133-346-19	Sequence 19, Appl
300	69.5	4.0	512	6	US-10-821-234-1032	Sequence 1032, Ap	373	66	3.8	702	7	US-11-098-686-10194	Sequence 10194, A
301	69.5	4.0	747	6	US-10-821-234-1662	Sequence 1662, Ap	374	66	3.8	886	6	US-10-873-528-126	Sequence 126, App
302	69.5	4.0	753	7	US-11-137-465-51	Sequence 51, Appl	375	66	3.8	980	7	US-11-052-554A-17	Sequence 17, Appl
303	69.5	4.0	2871	7	US-11-169-041-131	Sequence 131, App	376	66	3.8	1386	7	US-11-091-643-6	Sequence 6, Appli
304	69.5	4.0	3002	6	US-10-821-234-916	Sequence 916, App	377	66	3.8	2204	7	US-11-052-554A-134	Sequence 134, App
305	69	3.9	188	6	US-10-495-662-25	Sequence 25, Appl	378	66	3.8	4544	7	US-11-076-427A-32	Sequence 32, Appl
306	69	3.9	196	7	US-11-214-796-6	Sequence 6, Appli	379	65.5	3.7	225	7	US-11-170-653-24	Sequence 24, Appl
307	69	3.9	258	6	US-10-495-662-24	Sequence 24, Appl	380	65.5	3.7	313	7	US-11-152-569-13	Sequence 13, Appl
308	69	3.9	497	6	US-10-641-678-24	Sequence 24, Appl	381	65.5	3.7	317	7	US-11-136-079-2	Sequence 2, Appli
309	69	3.9	501	6	US-10-630-203-25	Sequence 25, Appl	382	65.5	3.7	342	6	US-10-517-939-220	Sequence 220, App
310	69	3.9	769	6	US-10-485-517-401	Sequence 401, App	383	65.5	3.7	360	7	US-11-108-528-6	Sequence 6, Appli
311	68.5	3.9	300	7	US-11-006-119-31	Sequence 31, Appl	384	65.5	3.7	406	7	US-11-131-479-18	Sequence 18, Appl
312	68.5	3.9	382	7	US-11-234-786-108	Sequence 108, App	385	65.5	3.7	429	6	US-10-967-457-74	Sequence 74, Appl
313	68.5	3.9	411	7	US-11-024-959-330	Sequence 330, App	386	65.5	3.7	429	7	US-11-000-463-302	Sequence 302, App
314	68.5	3.9	438	6	US-10-641-678-49	Sequence 49, Appl	387	65.5	3.7	429	7	US-11-000-463-774	Sequence 774, App
315	68.5	3.9	534	6	US-10-646-283-2	Sequence 2, Appli	388	65.5	3.7	459	7	US-11-156-084-247	Sequence 247, App
316	68.5	3.9	615	7	US-11-136-244-13	Sequence 13, Appl	389	65.5	3.7	463	7	US-11-156-084-32	Sequence 32, Appl
317	68.5	3.9	690	7	US-11-052-554A-232	Sequence 232, App	390	65.5	3.7	463	7	US-11-156-084-41	Sequence 41, Appl
318	68.5	3.9	901	6	US-10-793-626-342	Sequence 342, App	391	65.5	3.7	463	7	US-11-156-084-242	Sequence 242, App
319	68	3.9	185	6	US-10-467-657-7444	Sequence 7444, Ap	392	65.5	3.7	627	6	US-10-493-909-47	Sequence 47, Appl
320	68	3.9	185	6	US-10-467-657-8272	Sequence 8272, Ap	393	65.5	3.7	913	7	US-11-024-959-365	Sequence 365, App
321	68	3.9	340	6	US-10-873-528-188	Sequence 188, App	394	65.5	3.7	966	7	US-11-057-058-67	Sequence 67, Appl
322	68	3.9	416	6	US-10-641-678-73	Sequence 73, Appl	395	65.5	3.7	1227	6	US-10-793-626-96	Sequence 96, Appl
323	68	3.9	427	7	US-11-112-882-1	Sequence 1, Appli	396	65.5	3.7	1627	6	US-10-821-234-1283	Sequence 1283, Ap
324	68	3.9	585	7	US-11-074-176-190	Sequence 190, App	397	65	3.7	216	6	US-10-793-626-2654	Sequence 2654, Ap

398	65	3.7	249	7	US-11-010-239-107	Sequence 107, App	472	63.5	3.6	3588	6	US-10-995-561-672	Sequence 672, App
399	65	3.7	398	6	US-10-467-657-5642	Sequence 5642, Ap	473	63.5	3.6	4346	6	US-10-995-561-671	Sequence 671, App
400	65	3.7	432	7	US-11-098-686-10417	Sequence 10417, A	474	63.5	3.6	4347	6	US-10-995-561-670	Sequence 670, App
401	65	3.7	451	6	US-10-641-678-56	Sequence 56, Appl	475	63.5	3.6	4390	7	US-11-169-041-169	Sequence 169, App
402	65	3.7	451	6	US-10-641-678-57	Sequence 57, Appl	476	63.5	3.6	4419	6	US-10-821-234-1155	Sequence 1155, Ap
403	65	3.7	509	6	US-10-793-626-98	Sequence 98, Appl	477	63	3.6	123	6	US-10-982-440-3	Sequence 3, Appli
404	65	3.7	532	7	US-11-094-917-45	Sequence 45, Appl	478	63	3.6	139	7	US-11-226-325-40	Sequence 40, Appl
405	65	3.7	668	7	US-11-052-554A-104	Sequence 104, App	479	63	3.6	143	7	US-11-049-536-28	Sequence 28, Appl
406	65	3.7	696	7	US-11-029-003-8	Sequence 8, Appli	480	63	3.6	162	6	US-10-467-657-6218	Sequence 6218, Ap
407	65	3.7	717	7	US-11-010-239-111	Sequence 111, App	481	63	3.6	214	7	US-11-052-554A-54	Sequence 54, Appl
408	65	3.7	1172	7	US-11-186-284-203	Sequence 203, App	482	63	3.6	227	7	US-11-170-653-22	Sequence 22, Appl
409	65	3.7	1367	6	US-10-995-561-538	Sequence 538, App	483	63	3.6	248	7	US-11-054-515-1476	Sequence 1476, Ap
410	65	3.7	1367	7	US-11-113-202-18	Sequence 18, Appl	484	63	3.6	248	7	US-11-054-515-1816	Sequence 1816, Ap
411	65	3.7	1368	6	US-10-995-561-539	Sequence 539, App	485	63	3.6	257	7	US-11-054-515-1033	Sequence 1033, Ap
412	65	3.7	2204	7	US-11-052-554A-174	Sequence 174, App	486	63	3.6	355	6	US-10-517-939-206	Sequence 206, App
413	65	3.7	4655	6	US-10-995-561-556	Sequence 556, App	487	63	3.6	361	6	US-10-517-939-212	Sequence 212, App
414	64.5	3.7	253	7	US-11-054-515-1509	Sequence 1509, Ap	488	63	3.6	513	6	US-10-641-678-66	Sequence 66, Appl
415	64.5	3.7	331	6	US-10-467-657-2646	Sequence 2646, Ap	489	63	3.6	550	6	US-10-467-657-234	Sequence 234, App
416	64.5	3.7	552	7	US-11-098-686-10414	Sequence 10414, A	490	63	3.6	550	6	US-10-467-657-924	Sequence 924, App
417	64.5	3.7	605	7	US-11-046-653-3	Sequence 3, Appli	491	63	3.6	826	6	US-10-453-372-118	Sequence 118, App
418	64.5	3.7	872	6	US-10-467-657-78	Sequence 78, Appl	492	63	3.6	826	6	US-10-453-372-156	Sequence 156, App
419	64.5	3.7	886	6	US-10-467-657-4544	Sequence 4544, Ap	493	63	3.6	826	6	US-10-453-372-166	Sequence 166, App
420	64.5	3.7	890	7	US-11-106-623-28	Sequence 28, Appl	494	63	3.6	826	6	US-10-453-372-172	Sequence 172, App
421	64.5	3.7	929	6	US-10-467-657-5656	Sequence 5656, Ap	495	63	3.6	826	6	US-10-453-372-174	Sequence 174, App
422	64.5	3.7	1006	6	US-10-467-657-8400	Sequence 8400, Ap	496	63	3.6	826	6	US-10-453-372-176	Sequence 176, App
423	64.5	3.7	1170	6	US-10-831-997-2	Sequence 2, Appli	497	63	3.6	832	6	US-10-453-372-120	Sequence 120, App
424	64.5	3.7	1170	6	US-10-995-561-594	Sequence 594, App	498	63	3.6	2333	6	US-10-453-372-170	Sequence 170, App
425	64.5	3.7	1170	6	US-10-995-561-595	Sequence 595, App	499	63	3.6	2733	6	US-10-453-372-136	Sequence 136, App
426	64.5	3.7	1170	6	US-10-995-561-596	Sequence 596, App	500	63	3.6	2733	6	US-10-453-372-142	Sequence 142, App
427	64.5	3.7	1170	7	US-11-046-456-28	Sequence 28, Appl	501	63	3.6	2733	6	US-10-453-372-146	Sequence 146, App
428	64.5	3.7	1170	7	US-11-046-644-28	Sequence 42, Appl	502	63	3.6	2733	6	US-10-453-372-150	Sequence 150, App
429	64	3.7	117	7	US-11-127-903-42	Sequence 33, Appl	503	63	3.6	2733	6	US-11-052-554A-90	Sequence 154, App
430	64	3.7	189	7	US-11-043-788-33	Sequence 32, Appl	504	63	3.6	3194	7	US-11-052-554A-90	Sequence 90, Appl
431	64	3.7	242	7	US-11-043-788-32	Sequence 1692, Ap	505	62.5	3.6	211	6	US-10-517-939-198	Sequence 198, App
432	64	3.7	244	7	US-11-054-515-1692	Sequence 970, App	506	62.5	3.6	242	7	US-11-170-653-41	Sequence 41, Appl
433	64	3.7	248	7	US-11-054-515-970	Sequence 1671, Ap	507	62.5	3.6	251	7	US-11-054-515-976	Sequence 976, App
434	64	3.7	251	7	US-11-054-515-1671	Sequence 1973, Ap	508	62.5	3.6	251	7	US-11-054-515-979	Sequence 979, App
435	64	3.7	254	7	US-11-054-515-1973	Sequence 25, Appl	509	62.5	3.6	355	7	US-11-012-522-6	Sequence 6, Appli
436	64	3.7	334	6	US-10-895-064-25	Sequence 5722, Ap	510	62.5	3.6	388	6	US-10-467-657-58	Sequence 58, Appl
437	64	3.7	360	6	US-10-467-657-5722	Sequence 6138, Ap	511	62.5	3.6	388	6	US-10-467-657-1864	Sequence 1864, Ap
438	64	3.7	376	6	US-10-467-657-6138	Sequence 31, Appl	512	62.5	3.6	442	6	US-10-873-528-121	Sequence 121, App
439	64	3.7	435	7	US-11-043-788-31	Sequence 67, Appl	513	62.5	3.6	485	7	US-11-103-037-7	Sequence 7, Appli
440	64	3.7	514	6	US-10-641-678-67	Sequence 30, Appl	514	62.5	3.6	525	6	US-10-641-678-53	Sequence 53, Appl
441	64	3.7	610	7	US-11-043-788-30	Sequence 113, App	515	62.5	3.6	595	6	US-10-510-386-240	Sequence 240, App
442	64	3.7	643	7	US-11-054-281-113	Sequence 214, App	516	62.5	3.6	614	7	US-11-052-554A-44	Sequence 44, Appl
443	64	3.7	702	6	US-10-510-386-214	Sequence 215, App	517	62.5	3.6	702	6	US-10-957-880-2	Sequence 2, Appli
445	64	3.7	1140	6	US-10-055-877-215	Sequence 7, Appli	518	62.5	3.6	750	7	US-11-073-347-1	Sequence 1, Appli
446	64	3.7	1207	6	US-10-755-092-7	Sequence 127, App	519	62.5	3.6	750	7	US-11-155-288-4	Sequence 4, Appli
447	64	3.7	1263	6	US-10-485-517-127	Sequence 16, Appl	520	62.5	3.6	750	7	US-11-202-516-2	Sequence 2, Appli
448	64	3.7	1308	7	US-11-113-202-16	Sequence 23, Appl	521	62.5	3.6	897	6	US-10-517-939-258	Sequence 258, App
449	64	3.7	1742	7	US-11-182-016-23	Sequence 42, Appl	522	62.5	3.6	1604	7	US-11-037-243-73	Sequence 73, Appl
450	64	3.7	2367	7	US-11-051-453-42	Sequence 26, Appl	523	62.5	3.6	1736	7	US-11-124-368A-329	Sequence 329, App
451	63.5	3.6	119	6	US-10-834-397-26	Sequence 54, Appl	524	62	3.5	139	7	US-11-226-325-38	Sequence 38, Appl
452	63.5	3.6	197	7	US-11-090-878-54	Sequence 230, App	525	62	3.5	158	7	US-11-108-172-1070	Sequence 1070, Ap
453	63.5	3.6	213	6	US-10-517-939-230	Sequence 302, App	526	62	3.5	158	7	US-11-108-172-1077	Sequence 1077, Ap
454	63.5	3.6	213	6	US-10-517-939-302	Sequence 1866, Ap	527	62	3.5	158	7	US-11-108-172-1078	Sequence 1078, Ap
455	63.5	3.6	254	7	US-11-054-515-1866	Sequence 125, App	528	62	3.5	158	7	US-11-108-172-1079	Sequence 1079, Ap
456	63.5	3.6	471	6	US-10-858-730-125	Sequence 5002, Ap	529	62	3.5	158	7	US-11-108-172-1080	Sequence 1080, Ap
457	63.5	3.6	491	6	US-10-467-657-5002	Sequence 11, Appl	530	62	3.5	158	7	US-11-133-465A-2	Sequence 2, Appli
458	63.5	3.6	497	7	US-11-149-462-11	Sequence 163, App	531	62	3.5	222	6	US-10-517-939-168	Sequence 168, App
459	63.5	3.6	497	7	US-11-049-536-163	Sequence 236, App	532	62	3.5	236	7	US-11-170-653-46	Sequence 46, Appl
460	63.5	3.6	512	6	US-10-517-939-236	Sequence 8258, Ap	533	62	3.5	244	7	US-11-054-515-1694	Sequence 1694, Ap
461	63.5	3.6	524	6	US-10-467-657-8258	Sequence 4, Appli	534	62	3.5	293	6	US-11-052-554A-227	Sequence 227, App
462	63.5	3.6	627	7	US-11-130-559-4	Sequence 14, Appl	535	62	3.5	304	6	US-10-517-939-214	Sequence 214, App
463	63.5	3.6	647	7	US-11-144-630-14	Sequence 122, App	536	62	3.5	391	7	US-11-069-642-17	Sequence 17, Appl
464	63.5	3.6	823	6	US-10-453-372-122	Sequence 124, App	537	62	3.5	502	7	US-11-098-686-10506	Sequence 10506, A
465	63.5	3.6	823	6	US-10-453-372-124	Sequence 2, Appli	538	62	3.5	520	6	US-10-995-561-532	Sequence 532, App
466	63.5	3.6	863	7	US-11-097-749-2	Sequence 3106, Ap	539	62	3.5	560	7	US-11-033-039-1312	Sequence 1312, Ap
467	63.5	3.6	1027	6	US-10-793-626-3106	Sequence 26, Appl	540	62	3.5	594	6	US-10-997-247-2	Sequence 2, Appli
468	63.5	3.6	1210	6	US-10-624-932-26	Sequence 62, Appl	541	62	3.5	594	6	US-11-130-559-2	Sequence 2, Appli
469	63.5	3.6	1827	7	US-11-057-058-62	Sequence 148, App	542	62	3.5	648	7	US-10-661-966-16	Sequence 16, Appl
470	63.5	3.6	2724	6	US-10-453-372-148	Sequence 116, App	543	62	3.5	651	6	US-10-517-939-268	Sequence 268, App
471	63.5	3.6	2765	6	US-10-453-372-116		544	62	3.5	660	6	US-10-517-939-354	Sequence 354, App

545	62	3.5	755	6	US-10-517-939-330	Sequence 330, App	618	60.5	3.5	1035	6	US-10-995-561-557	Sequence 557, App
546	62	3.5	760	7	US-11-052-554A-68	Sequence 68, Appl	619	60.5	3.5	1213	7	US-11-039-398-14	Sequence 14, Appl
547	62	3.5	765	7	US-11-037-243-80	Sequence 80, Appl	620	60.5	3.5	1216	7	US-11-039-398-12	Sequence 12, Appl
548	62	3.5	805	7	US-11-074-176-172	Sequence 172, App	621	60.5	3.5	1219	7	US-11-039-398-10	Sequence 10, Appl
549	62	3.5	807	7	US-11-144-630-6	Sequence 6, Appli	622	60.5	3.5	1222	7	US-11-039-398-8	Sequence 8, Appli
550	62	3.5	958	7	US-11-207-626A-43	Sequence 43, Appl	623	60.5	3.5	1232	7	US-11-039-398-18	Sequence 18, Appl
551	62	3.5	961	7	US-11-113-424-35	Sequence 35, Appl	624	60.5	3.5	1235	7	US-11-039-398-16	Sequence 16, Appl
552	62	3.5	1038	7	US-11-107-028-1	Sequence 1, Appli	625	60.5	3.5	1249	7	US-11-039-398-22	Sequence 22, Appl
553	62	3.5	1445	7	US-11-169-041-181	Sequence 181, App	626	60.5	3.5	1252	7	US-11-039-398-20	Sequence 20, Appl
554	62	3.5	1841	7	US-11-057-058-63	Sequence 63, Appl	627	60.5	3.5	1463	7	US-11-080-991-22	Sequence 22, Appl
555	62	3.5	3073	7	US-11-143-980-50	Sequence 50, Appl	628	60.5	3.5	2221	7	US-11-126-313-30	Sequence 30, Appl
556	61.5	3.5	120	6	US-10-834-397-35	Sequence 35, Appl	629	60.5	3.5	2769	7	US-11-113-424-14	Sequence 14, Appl
557	61.5	3.5	120	6	US-10-834-397-57	Sequence 57, Appl	630	60	3.4	121	6	US-10-982-440-19	Sequence 19, Appl
558	61.5	3.5	229	6	US-10-467-657-6238	Sequence 6238, Ap	631	60	3.4	218	7	US-11-143-980-33	Sequence 33, Appl
559	61.5	3.5	245	7	US-11-032-797-2	Sequence 2, Appli	632	60	3.4	221	7	US-11-170-653-44	Sequence 44, Appl
560	61.5	3.5	246	7	US-11-054-515-1913	Sequence 1913, Ap	633	60	3.4	231	6	US-10-454-437-414	Sequence 414, App
561	61.5	3.5	246	7	US-11-054-515-1917	Sequence 1917, Ap	634	60	3.4	248	7	US-11-052-554A-70	Sequence 70, Appl
562	61.5	3.5	252	7	US-11-054-515-1656	Sequence 1656, Ap	635	60	3.4	250	7	US-11-054-515-1601	Sequence 1601, Ap
563	61.5	3.5	354	7	US-11-052-554A-156	Sequence 156, App	636	60	3.4	251	7	US-11-054-515-1756	Sequence 1756, Ap
564	61.5	3.5	358	6	US-10-525-674-24	Sequence 24, Appl	637	60	3.4	253	7	US-11-054-515-1482	Sequence 1482, Ap
565	61.5	3.5	423	6	US-10-641-678-48	Sequence 48, Appl	638	60	3.4	253	7	US-11-054-515-1880	Sequence 1880, Ap
566	61.5	3.5	449	6	US-10-878-556A-57	Sequence 57, Appl	639	60	3.4	254	7	US-11-054-515-1699	Sequence 1699, Ap
567	61.5	3.5	473	6	US-10-509-464-6	Sequence 6, Appli	640	60	3.4	255	7	US-11-170-653-65	Sequence 65, Appl
568	61.5	3.5	514	6	US-10-641-678-54	Sequence 54, Appl	641	60	3.4	257	7	US-11-124-367A-399	Sequence 399, App
569	61.5	3.5	539	6	US-10-467-657-3870	Sequence 3870, Ap	642	60	3.4	265	6	US-10-467-657-1778	Sequence 1778, Ap
570	61.5	3.5	569	6	US-10-512-184-66	Sequence 66, Appl	643	60	3.4	301	6	US-10-512-184-37	Sequence 37, Appl
571	61.5	3.5	618	6	US-10-512-184-48	Sequence 48, Appl	644	60	3.4	349	7	US-11-182-946-13	Sequence 13, Appl
572	61.5	3.5	703	7	US-11-052-554A-97	Sequence 97, Appl	645	60	3.4	353	6	US-10-641-678-77	Sequence 77, Appl
573	61.5	3.5	744	7	US-11-052-554A-94	Sequence 94, Appl	646	60	3.4	405	7	US-11-089-551A-29	Sequence 29, Appl
574	61.5	3.5	987	7	US-11-052-554A-153	Sequence 153, App	647	60	3.4	405	7	US-11-089-551A-50	Sequence 50, Appl
575	61.5	3.5	1344	7	US-11-091-643-20	Sequence 20, Appl	648	60	3.4	437	7	US-11-098-686-10451	Sequence 10451, A
576	61.5	3.5	1437	7	US-11-074-176-96	Sequence 96, Appl	649	60	3.4	465	7	US-11-186-284-197	Sequence 197, App
577	61.5	3.5	1449	7	US-11-052-554A-237	Sequence 237, App	650	60	3.4	488	6	US-10-467-657-464	Sequence 464, App
578	61.5	3.5	1680	6	US-10-517-939-362	Sequence 362, App	651	60	3.4	497	6	US-10-641-678-10	Sequence 10, Appl
579	61	3.5	69	7	US-11-090-878-62	Sequence 62, Appl	652	60	3.4	518	6	US-10-517-939-66	Sequence 66, Appl
580	61	3.5	197	6	US-10-485-517-359	Sequence 359, App	653	60	3.4	598	7	US-11-090-878-10	Sequence 10, Appl
581	61	3.5	221	7	US-11-170-653-20	Sequence 20, Appl	654	60	3.4	598	7	US-11-090-878-12	Sequence 12, Appl
582	61	3.5	246	7	US-11-054-515-1589	Sequence 1589, Ap	655	60	3.4	607	7	US-11-167-856-16	Sequence 16, Appl
583	61	3.5	250	7	US-11-054-515-1644	Sequence 1644, Ap	656	60	3.4	624	7	US-11-090-878-4	Sequence 4, Appli
584	61	3.5	250	7	US-11-054-515-1683	Sequence 1683, Ap	657	60	3.4	624	7	US-11-090-878-6	Sequence 6, Appli
585	61	3.5	254	7	US-11-054-515-1412	Sequence 1412, Ap	658	60	3.4	641	6	US-10-821-234-1519	Sequence 1519, Ap
586	61	3.5	321	6	US-10-329-258-18	Sequence 18, Appl	659	60	3.4	641	6	US-10-491-096-189	Sequence 189, App
587	61	3.5	328	7	US-11-140-625-6	Sequence 6, Appli	660	60	3.4	648	6	US-10-661-966-12	Sequence 12, Appl
588	61	3.5	347	6	US-10-517-939-196	Sequence 196, App	661	60	3.4	648	6	US-10-661-966-17	Sequence 17, Appl
589	61	3.5	466	7	US-11-052-554A-22	Sequence 22, Appl	662	60	3.4	648	7	US-11-109-156-17	Sequence 17, Appl
590	61	3.5	467	6	US-10-821-234-904	Sequence 904, App	663	60	3.4	785	7	US-11-109-157A-6	Sequence 6, Appli
591	61	3.5	498	6	US-10-510-947-9	Sequence 9, Appli	664	60	3.4	838	7	US-11-052-554A-42	Sequence 42, Appl
592	61	3.5	576	6	US-10-512-184-65	Sequence 65, Appl	665	60	3.4	886	6	US-10-821-234-1329	Sequence 1329, Ap
593	61	3.5	579	6	US-10-821-234-1352	Sequence 1352, Ap	666	60	3.4	895	6	US-10-485-517-129	Sequence 42, Appl
594	61	3.5	601	6	US-10-467-657-7120	Sequence 7120, Ap	667	60	3.4	1049	7	US-11-137-465-42	Sequence 42, Appl
595	61	3.5	609	6	US-10-517-939-310	Sequence 310, App	668	60	3.4	1053	7	US-11-052-554A-151	Sequence 151, App
596	61	3.5	615	6	US-10-512-184-50	Sequence 50, Appl	669	60	3.4	1076	7	US-11-109-157A-5	Sequence 5, Appli
597	61	3.5	625	6	US-10-512-184-47	Sequence 47, Appl	670	60	3.4	1400	6	US-10-821-234-1045	Sequence 1045, Ap
598	61	3.5	701	7	US-11-052-554A-231	Sequence 231, App	671	60	3.4	2050	6	US-10-453-372-192	Sequence 192, App
599	61	3.5	762	7	US-11-116-939-13	Sequence 13, Appl	672	60	3.4	2902	7	US-11-052-554A-91	Sequence 91, Appl
600	61	3.5	766	6	US-10-522-789-2	Sequence 2, Appli	673	59.5	3.4	124	7	US-11-040-159-6	Sequence 6, Appli
601	61	3.5	1620	6	US-10-055-877-213	Sequence 213, App	674	59.5	3.4	190	7	US-11-170-653-33	Sequence 33, Appl
602	61	3.5	1664	6	US-10-055-877-212	Sequence 212, App	675	59.5	3.4	219	6	US-10-867-589-2	Sequence 2, Appli
603	60.5	3.5	145	6	US-10-467-657-2824	Sequence 2824, Ap	676	59.5	3.4	225	7	US-11-170-653-36	Sequence 36, Appl
604	60.5	3.5	249	7	US-11-054-515-699	Sequence 699, App	677	59.5	3.4	226	7	US-11-133-465A-10	Sequence 10, Appl
605	60.5	3.5	253	7	US-11-054-515-1298	Sequence 1298, Ap	678	59.5	3.4	240	7	US-11-007-282-15	Sequence 15, Appl
606	60.5	3.5	258	6	US-10-793-626-440	Sequence 440, App	679	59.5	3.4	247	7	US-11-054-515-1423	Sequence 1423, Ap
607	60.5	3.5	301	7	US-11-216-267-40	Sequence 40, Appl	680	59.5	3.4	258	7	US-11-007-282-6	Sequence 6, Appli
608	60.5	3.5	309	7	US-11-109-156-24	Sequence 24, Appl	681	59.5	3.4	343	7	US-11-016-564-17	Sequence 17, Appl
609	60.5	3.5	309	7	US-11-109-156-39	Sequence 39, Appl	682	59.5	3.4	347	6	US-10-517-939-254	Sequence 254, App
610	60.5	3.5	362	7	US-11-012-762-32	Sequence 32, Appl	683	59.5	3.4	354	7	US-11-054-281-58	Sequence 58, Appl
611	60.5	3.5	400	6	US-10-793-626-1056	Sequence 1056, Ap	684	59.5	3.4	360	7	US-11-108-528-8	Sequence 8, Appli
612	60.5	3.5	404	7	US-11-052-554A-344	Sequence 344, App	685	59.5	3.4	431	6	US-10-995-561-807	Sequence 807, App
613	60.5	3.5	573	6	US-10-525-710-36	Sequence 36, Appl	686	59.5	3.4	431	6	US-10-995-561-808	Sequence 808, App
614	60.5	3.5	596	7	US-11-082-389-420	Sequence 420, App	687	59.5	3.4	431	7	US-11-186-284-161	Sequence 161, App
615	60.5	3.5	601	7	US-11-098-686-10933	Sequence 10933, A	688	59.5	3.4	439	7	US-11-093-814-2	Sequence 2, Appli
616	60.5	3.5	623	6	US-10-873-528-88	Sequence 88, Appl	689	59.5	3.4	510	7	US-11-093-814-1	Sequence 1, Appli
617	60.5	3.5	965	7	US-11-113-424-2	Sequence 2, Appli	690	59.5	3.4	524	7	US-11-024-959-378	Sequence 378, App

691	59.5	3.4	526	6	US-10-997-697-28	Sequence 28, Appl	766	58.5	3.3	540	6	US-10-641-678-60	Sequence 60, Appl
693	59.5	3.4	780	6	US-10-878-556A-197	Sequence 197, App	767	58.5	3.3	542	6	US-10-517-939-262	Sequence 262, App
694	59.5	3.4	814	6	US-10-878-556A-161	Sequence 161, App	768	58.5	3.3	544	7	US-11-052-554A-358	Sequence 358, App
695	59.5	3.4	842	7	US-11-038-284-38	Sequence 38, Appl	769	58.5	3.3	638	6	US-10-995-561-1025	Sequence 1025, App
696	59.5	3.4	907	7	US-11-103-957-82	Sequence 82, Appl	770	58.5	3.3	693	6	US-11-189-301-20	Sequence 20, Appl
697	59.5	3.4	966	7	US-11-054-281-72	Sequence 72, Appl	771	58.5	3.3	697	7	US-11-074-176-62	Sequence 62, Appl
698	59.5	3.4	988	7	US-11-171-701-6	Sequence 6, Appl	772	58.5	3.3	738	6	US-10-517-939-344	Sequence 344, Appl
699	59.5	3.4	1007	6	US-10-517-939-84	Sequence 84, Appl	773	58.5	3.3	927	7	US-11-189-301-10	Sequence 10, Appl
700	59.5	3.4	1128	7	US-11-037-243-97	Sequence 97, Appl	774	58.5	3.3	1160	6	US-10-995-561-1019	Sequence 1019, App
701	59.5	3.4	1531	7	US-11-103-957-15	Sequence 15, Appl	775	58.5	3.3	1302	6	US-10-995-561-1024	Sequence 1024, App
702	59	3.4	82	6	US-10-821-234-1503	Sequence 1503, App	776	58.5	3.3	1306	6	US-10-995-561-1027	Sequence 1027, App
703	59	3.4	92	6	US-10-467-657-8742	Sequence 8742, App	777	58.5	3.3	1340	6	US-11-070-575-6	Sequence 6, Appl
704	59	3.4	126	7	US-11-049-536-422	Sequence 422, App	778	58.5	3.3	1438	6	US-10-511-559-73	Sequence 73, Appl
705	59	3.4	139	7	US-11-226-325-42	Sequence 42, Appl	779	58.5	3.3	1713	6	US-10-766-317-2	Sequence 2, Appl
706	59	3.4	247	7	US-11-054-515-878	Sequence 878, App	780	58.5	3.3	1724	6	US-10-766-317-6	Sequence 6, Appl
707	59	3.4	247	7	US-11-054-515-1090	Sequence 1090, App	781	58.5	3.3	1822	7	US-11-169-041-193	Sequence 193, App
708	59	3.4	247	7	US-11-054-515-1099	Sequence 1099, App	782	58.5	3.3	2096	6	US-10-995-561-606	Sequence 606, App
709	59	3.4	252	7	US-11-054-515-1666	Sequence 1666, App	783	58.5	3.3	2351	6	US-10-995-561-608	Sequence 608, App
710	59	3.4	271	6	US-10-467-657-2266	Sequence 2266, App	784	58	3.3	150	7	US-11-043-788-136	Sequence 136, App
711	59	3.4	271	7	US-11-089-551A-17	Sequence 17, Appl	785	58	3.3	188	7	US-11-000-463-866	Sequence 866, App
712	59	3.4	274	7	US-11-098-686-10695	Sequence 10695, A	786	58	3.3	188	7	US-11-000-463-867	Sequence 867, App
713	59	3.4	316	6	US-10-467-657-2250	Sequence 2250, App	787	58	3.3	226	6	US-10-467-657-740	Sequence 740, App
714	59	3.4	316	6	US-10-467-657-6552	Sequence 6552, App	788	58	3.3	227	7	US-11-170-653-21	Sequence 21, Appl
715	59	3.4	317	7	US-11-052-554A-48	Sequence 48, Appl	789	58	3.3	229	7	US-11-170-653-54	Sequence 54, Appl
716	59	3.4	326	6	US-10-793-626-3238	Sequence 3238, App	790	58	3.3	237	7	US-11-083-055-2	Sequence 2, Appl
717	59	3.4	334	6	US-10-714-887-46	Sequence 46, Appl	791	58	3.3	242	7	US-11-150-883-12	Sequence 12, Appl
718	59	3.4	335	6	US-10-517-939-232	Sequence 232, App	792	58	3.3	247	7	US-11-054-515-1443	Sequence 1443, App
719	59	3.4	358	6	US-10-517-939-370	Sequence 370, App	793	58	3.3	248	7	US-11-052-554A-342	Sequence 342, App
720	59	3.4	398	6	US-10-467-657-2406	Sequence 2406, App	794	58	3.3	250	7	US-11-054-515-1598	Sequence 1598, App
721	59	3.4	415	6	US-10-714-887-252	Sequence 252, App	795	58	3.3	251	7	US-11-054-515-1070	Sequence 1070, App
722	59	3.4	486	6	US-10-641-678-28	Sequence 28, Appl	796	58	3.3	257	6	US-10-632-150-40	Sequence 40, Appl
723	59	3.4	497	6	US-10-641-678-2	Sequence 2, Appl	797	58	3.3	257	7	US-11-073-457-40	Sequence 40, Appl
724	59	3.4	497	6	US-10-641-678-6	Sequence 6, Appl	798	58	3.3	257	7	US-11-073-460-40	Sequence 40, Appl
725	59	3.4	497	6	US-10-641-678-8	Sequence 8, Appl	799	58	3.3	274	7	US-11-156-062-2	Sequence 2, Appl
726	59	3.4	497	6	US-10-641-678-12	Sequence 12, Appl	800	58	3.3	274	7	US-11-156-062-4	Sequence 4, Appl
727	59	3.4	497	6	US-10-641-678-14	Sequence 14, Appl	801	58	3.3	274	7	US-11-156-062-6	Sequence 6, Appl
728	59	3.4	497	6	US-10-641-678-16	Sequence 16, Appl	802	58	3.3	274	7	US-11-156-062-8	Sequence 8, Appl
729	59	3.4	497	6	US-10-641-678-18	Sequence 18, Appl	803	58	3.3	274	7	US-11-156-062-10	Sequence 10, Appl
730	59	3.4	497	6	US-10-641-678-26	Sequence 26, Appl	804	58	3.3	274	7	US-11-156-062-12	Sequence 12, Appl
731	59	3.4	513	6	US-10-641-678-64	Sequence 64, Appl	805	58	3.3	274	7	US-11-156-062-14	Sequence 14, Appl
732	59	3.4	527	6	US-10-821-234-1574	Sequence 1574, App	806	58	3.3	274	7	US-11-156-062-18	Sequence 18, Appl
733	59	3.4	550	6	US-10-878-556A-166	Sequence 166, App	807	58	3.3	274	7	US-11-020-602-5	Sequence 5, Appl
734	59	3.4	637	7	US-11-088-686-10653	Sequence 10653, A	808	58	3.3	277	6	US-10-714-887-274	Sequence 274, App
735	59	3.4	670	7	US-11-150-883-55	Sequence 55, Appl	809	58	3.3	278	6	US-10-793-626-2208	Sequence 2208, App
736	59	3.4	685	7	US-11-150-883-54	Sequence 54, Appl	810	58	3.3	309	6	US-10-714-887-42	Sequence 42, Appl
737	59	3.4	713	6	US-10-453-372-48	Sequence 48, Appl	811	58	3.3	349	7	US-11-108-528-44	Sequence 44, Appl
738	59	3.4	952	7	US-11-207-626A-45	Sequence 45, Appl	812	58	3.3	366	7	US-11-043-788-139	Sequence 139, App
740	59	3.4	2890	7	US-11-115-639-31	Sequence 31, Appl	813	58	3.3	379	7	US-11-156-062-23	Sequence 23, Appl
741	59	3.4	2890	7	US-11-115-639-32	Sequence 32, Appl	814	58	3.3	406	7	US-11-043-788-131	Sequence 131, App
742	59	3.4	2890	7	US-11-115-639-33	Sequence 33, Appl	815	58	3.3	406	7	US-11-189-120-6	Sequence 6, Appl
743	59	3.4	3483	6	US-10-453-372-40	Sequence 40, Appl	816	58	3.3	497	6	US-10-641-678-22	Sequence 22, Appl
744	59	3.4	3712	7	US-11-019-711-48	Sequence 48, Appl	817	58	3.3	497	6	US-10-641-678-30	Sequence 30, Appl
745	59	3.4	3712	7	US-11-019-711-51	Sequence 51, Appl	818	58	3.3	510	6	US-10-641-678-20	Sequence 20, Appl
746	59	3.4	5291	7	US-11-052-554A-281	Sequence 281, App	819	58	3.3	513	7	US-11-043-788-369	Sequence 369, App
747	58.5	3.3	180	6	US-10-485-517-194	Sequence 194, App	820	58	3.3	586	7	US-11-043-788-376	Sequence 376, App
748	58.5	3.3	180	6	US-10-485-517-194	Sequence 322, App	821	58	3.3	603	7	US-11-043-788-374	Sequence 298, App
749	58.5	3.3	214	6	US-10-485-517-322	Sequence 158, App	822	58	3.3	613	6	US-10-517-939-298	Sequence 244, App
750	58.5	3.3	217	7	US-10-517-939-158	Sequence 60, Appl	823	58	3.3	628	7	US-11-074-176-244	Sequence 375, App
751	58.5	3.3	221	7	US-11-170-653-60	Sequence 37, Appl	824	58	3.3	628	7	US-11-043-788-375	Sequence 2, Appl
752	58.5	3.3	221	7	US-11-170-653-37	Sequence 911, App	825	58	3.3	685	7	US-11-089-551A-2	Sequence 10811, A
753	58.5	3.3	238	6	US-10-485-517-191	Sequence 1617, App	826	58	3.3	690	7	US-11-098-686-10811	Sequence 371, App
754	58.5	3.3	248	7	US-11-054-515-1617	Sequence 191, App	827	58	3.3	702	7	US-11-043-788-371	Sequence 367, App
755	58.5	3.3	252	7	US-11-054-515-1537	Sequence 1537, App	828	58	3.3	727	7	US-11-043-788-367	Sequence 368, App
756	58.5	3.3	254	6	US-11-067-323-911	Sequence 911, App	829	58	3.3	727	7	US-11-043-788-368	Sequence 373, App
757	58.5	3.3	259	6	US-10-510-386-108	Sequence 108, App	830	58	3.3	729	7	US-11-043-788-373	Sequence 372, App
758	58.5	3.3	273	6	US-10-510-386-100	Sequence 689, App	831	58	3.3	736	7	US-11-043-788-372	Sequence 191, App
759	58.5	3.3	275	6	US-10-510-386-100	Sequence 100, App	832	58	3.3	774	6	US-10-055-877-191	Sequence 370, App
760	58.5	3.3	350	7	US-11-052-554A-256	Sequence 256, App	833	58	3.3	774	7	US-11-043-788-370	Sequence 1106, App
761	58.5	3.3	374	7	US-11-207-626A-25	Sequence 25, Appl	834	58	3.3	809	6	US-10-467-657-1106	Sequence 111, App
762	58.5	3.3	385	7	US-11-098-686-10215	Sequence 10215, A	835	58	3.3	818	7	US-11-037-243-111	Sequence 89, Appl
763	58.5	3.3	421	7	US-10-517-939-10	Sequence 10, Appl	836	58	3.3	1144	6	US-10-467-962B-89	Sequence 4, Appl
764	58.5	3.3	436	6	US-10-517-939-10	Sequence 212, App	837	58	3.3	1211	7	US-11-186-284-4	Sequence 20, Appl
765	58.5	3.3	457	7	US-11-169-041-212	Sequence 52, Appl	838	58	3.3	1359	7	US-11-152-569-20	

839	58	3.3	2710	7	US-11-051-453-41	Sequence 41, Appl	912	57	3.3	318	7	US-11-186-284-69	Sequence 69, Appl
840	58	3.3	5405	7	US-11-108-172-1116	Sequence 1116, Ap	913	57	3.3	350	7	US-11-132-285-41	Sequence 41, Appl
841	57.5	3.3	132	6	US-10-467-657-7752	Sequence 7752, Ap	914	57	3.3	376	7	US-11-055-822-152	Sequence 152, App
842	57.5	3.3	186	6	US-10-821-234-1324	Sequence 1324, Ap	915	57	3.3	396	7	US-11-022-562-228	Sequence 228, App
843	57.5	3.3	247	7	US-11-054-515-1770	Sequence 1770, Ap	916	57	3.3	408	6	US-10-467-657-8004	Sequence 8004, Ap
844	57.5	3.3	249	7	US-11-054-515-341	Sequence 341, App	917	57	3.3	433	6	US-10-641-678-34	Sequence 34, Appl
845	57.5	3.3	250	7	US-11-054-515-1581	Sequence 1581, Ap	918	57	3.3	435	6	US-10-510-386-62	Sequence 62, Appl
846	57.5	3.3	254	7	US-11-067-323-412	Sequence 412, App	919	57	3.3	452	6	US-10-641-678-63	Sequence 63, Appl
847	57.5	3.3	257	7	US-11-054-515-1553	Sequence 1553, Ap	920	57	3.3	493	6	US-10-878-556A-65	Sequence 65, Appl
848	57.5	3.3	272	6	US-10-793-626-520	Sequence 520, App	921	57	3.3	497	6	US-10-454-437-410	Sequence 410, App
849	57.5	3.3	288	6	US-10-467-657-2234	Sequence 2234, Ap	922	57	3.3	520	7	US-11-052-554A-98	Sequence 98, Appl
850	57.5	3.3	315	6	US-10-453-372-212	Sequence 212, App	923	57	3.3	526	6	US-10-467-657-2186	Sequence 2186, Ap
851	57.5	3.3	316	6	US-10-510-386-244	Sequence 244, App	924	57	3.3	536	6	US-10-641-678-61	Sequence 61, Appl
852	57.5	3.3	327	7	US-11-090-878-16	Sequence 16, Appl	925	57	3.3	552	6	US-10-453-372-248	Sequence 248, App
853	57.5	3.3	355	7	US-11-182-946-14	Sequence 14, Appl	926	57	3.3	619	7	US-11-156-953-5	Sequence 5, Appli
854	57.5	3.3	373	6	US-10-498-026-95	Sequence 95, Appl	927	57	3.3	628	7	US-11-094-586-8	Sequence 8, Appli
855	57.5	3.3	374	6	US-10-498-026-100	Sequence 100, App	928	57	3.3	674	6	US-10-821-234-965	Sequence 965, App
856	57.5	3.3	418	6	US-10-467-657-5788	Sequence 5788, Ap	929	57	3.3	691	6	US-10-510-386-4	Sequence 185, App
857	57.5	3.3	497	6	US-10-467-657-76	Sequence 76, Appl	930	57	3.3	693	6	US-10-873-528-185	Sequence 4, Appli
858	57.5	3.3	510	6	US-10-641-678-43	Sequence 43, Appl	931	57	3.3	760	6	US-10-821-234-1141	Sequence 1141, Ap
859	57.5	3.3	523	6	US-10-467-657-3914	Sequence 3914, Ap	932	57	3.3	1127	6	US-10-858-730-13	Sequence 13, Appl
861	57.5	3.3	540	6	US-10-641-678-44	Sequence 8, Appli	933	57	3.3	1207	7	US-11-124-368A-263	Sequence 263, App
862	57.5	3.3	563	6	US-10-454-437-120	Sequence 44, Appl	934	57	3.3	1548	7	US-11-108-172-1095	Sequence 1095, Ap
863	57.5	3.3	598	7	US-11-090-878-8	Sequence 8, Appli	935	57	3.3	2214	7	US-11-080-991-94	Sequence 94, Appl
864	57.5	3.3	617	7	US-11-090-878-18	Sequence 18, Appl	936	57	3.3	2523	7	US-11-052-554A-143	Sequence 143, App
865	57.5	3.3	624	7	US-11-090-878-2	Sequence 2, Appli	937	57	3.3	4495	6	US-10-453-372-1002	Sequence 1002, Ap
866	57.5	3.3	637	7	US-11-090-878-24	Sequence 24, Appl	938	56.5	3.2	119	7	US-11-049-536-534	Sequence 534, App
867	57.5	3.3	642	7	US-11-098-686-10286	Sequence 10286, A	939	56.5	3.2	124	6	US-10-982-440-25	Sequence 25, Appl
868	57.5	3.3	668	7	US-10-454-437-118	Sequence 118, App	940	56.5	3.2	125	7	US-11-049-536-478	Sequence 478, App
869	57.5	3.3	799	6	US-11-074-176-348	Sequence 348, App	941	56.5	3.2	126	7	US-11-221-900-11	Sequence 11, Appl
870	57.5	3.3	865	7	US-11-094-519A-41	Sequence 41, Appl	942	56.5	3.2	182	7	US-11-170-653-49	Sequence 49, Appl
871	57.5	3.3	946	7	US-11-207-626A-44	Sequence 44, Appl	943	56.5	3.2	186	6	US-10-467-657-7854	Sequence 7854, Ap
872	57.5	3.3	964	7	US-11-137-465-58	Sequence 58, Appl	944	56.5	3.2	210	6	US-10-517-939-208	Sequence 208, App
873	57.5	3.3	965	7	US-11-147-047-51	Sequence 51, Appl	945	56.5	3.2	232	6	US-10-884-730-366	Sequence 366, App
874	57.5	3.3	967	6	US-10-995-561-979	Sequence 979, App	946	56.5	3.2	247	7	US-11-024-959-440	Sequence 440, App
875	57.5	3.3	967	6	US-10-995-561-980	Sequence 980, App	947	56.5	3.2	249	7	US-11-054-515-796	Sequence 796, App
876	57.5	3.3	967	7	US-11-169-041-191	Sequence 191, App	948	56.5	3.2	250	7	US-11-054-515-1851	Sequence 1851, Ap
877	57.5	3.3	970	7	US-11-037-243-101	Sequence 101, App	949	56.5	3.2	251	7	US-11-054-515-991	Sequence 991, App
878	57.5	3.3	999	6	US-10-821-234-1251	Sequence 1251, Ap	950	56.5	3.2	252	6	US-10-467-657-3128	Sequence 3128, Ap
879	57.5	3.3	1332	7	US-11-091-643-18	Sequence 18, Appl	951	56.5	3.2	254	7	US-11-067-323-927	Sequence 927, App
880	57.5	3.3	1436	7	US-11-052-554A-140	Sequence 140, App	952	56.5	3.2	272	7	US-11-037-243-99	Sequence 99, Appl
881	57.5	3.3	1454	7	US-11-109-157A-2	Sequence 2, Appli	953	56.5	3.2	280	6	US-10-873-528-49	Sequence 49, Appl
882	57.5	3.3	1607	7	US-11-098-686-10178	Sequence 10178, A	954	56.5	3.2	281	6	US-10-467-657-8006	Sequence 8006, Ap
883	57.5	3.3	1686	7	US-11-109-157A-1	Sequence 1, Appli	955	56.5	3.2	301	6	US-10-878-556A-8	Sequence 8, Appli
884	57.5	3.3	1686	7	US-11-226-701-2	Sequence 2, Appli	956	56.5	3.2	332	6	US-10-873-528-190	Sequence 190, App
885	57.5	3.3	2250	6	US-10-922-232B-57	Sequence 57, Appl	957	56.5	3.2	347	7	US-11-024-959-331	Sequence 331, App
886	57.5	3.3	2504	6	US-10-647-956A-8	Sequence 8, Appli	958	56.5	3.2	361	7	US-11-134-994-2	Sequence 2, Appli
887	57.5	3.3	4060	6	US-10-922-232B-55	Sequence 55, Appl	959	56.5	3.2	366	7	US-11-024-959-470	Sequence 470, App
888	57.5	3.3	6738	6	US-10-922-232B-56	Sequence 56, Appl	960	56.5	3.2	399	7	US-11-147-047-35	Sequence 35, Appl
889	57	3.3	128	7	US-11-052-554A-244	Sequence 244, App	961	56.5	3.2	400	7	US-11-019-711-12	Sequence 12, Appl
890	57	3.3	135	7	US-11-108-172-203	Sequence 203, App	962	56.5	3.2	415	6	US-10-467-657-7774	Sequence 7774, Ap
891	57	3.3	139	7	US-11-226-325-36	Sequence 36, Appl	963	56.5	3.2	421	6	US-10-793-626-1820	Sequence 1820, Ap
892	57	3.3	139	7	US-11-226-325-50	Sequence 50, Appl	964	56.5	3.2	432	6	US-10-517-939-178	Sequence 178, App
893	57	3.3	185	7	US-11-170-653-1	Sequence 1, Appli	965	56.5	3.2	437	6	US-10-467-657-5526	Sequence 5526, Ap
894	57	3.3	205	6	US-10-793-626-3020	Sequence 3020, Ap	966	56.5	3.2	439	6	US-10-895-861-38	Sequence 38, Appl
895	57	3.3	211	7	US-11-170-653-18	Sequence 18, Appl	967	56.5	3.2	447	7	US-11-156-084-43	Sequence 43, Appl
896	57	3.3	213	6	US-10-517-939-188	Sequence 188, App	968	56.5	3.2	461	6	US-10-858-730-62	Sequence 62, Appl
897	57	3.3	213	7	US-11-170-653-16	Sequence 16, Appl	969	56.5	3.2	470	6	US-10-793-626-1082	Sequence 1082, Ap
898	57	3.3	213	7	US-11-170-653-17	Sequence 17, Appl	970	56.5	3.2	473	6	US-10-509-464-5	Sequence 5, Appli
899	57	3.3	217	7	US-11-170-653-48	Sequence 48, Appl	971	56.5	3.2	476	6	US-10-997-697-29	Sequence 29, Appl
900	57	3.3	234	6	US-10-485-517-333	Sequence 333, App	972	56.5	3.2	482	6	US-10-055-877-298	Sequence 298, App
901	57	3.3	244	7	US-11-054-515-1881	Sequence 1881, Ap	973	56.5	3.2	491	7	US-11-098-662-14	Sequence 14, Appl
902	57	3.3	250	7	US-11-113-837-2	Sequence 2, Appli	974	56.5	3.2	491	7	US-11-165-141-2	Sequence 2, Appli
903	57	3.3	252	7	US-11-054-515-1612	Sequence 1612, Ap	975	56.5	3.2	493	7	US-11-076-427A-4	Sequence 4, Appli
904	57	3.3	254	7	US-11-067-323-344	Sequence 344, App	976	56.5	3.2	494	6	US-10-971-560-7	Sequence 7, Appli
905	57	3.3	255	6	US-10-793-626-914	Sequence 914, App	977	56.5	3.2	503	6	US-10-878-556A-2	Sequence 2, Appli
906	57	3.3	255	6	US-10-793-626-2620	Sequence 2620, Ap	978	56.5	3.2	556	6	US-10-453-372-210	Sequence 210, App
907	57	3.3	256	7	US-11-054-515-2119	Sequence 2119, Ap	979	56.5	3.2	574	6	US-10-527-771-14	Sequence 14, Appl
908	57	3.3	259	6	US-10-631-558-4	Sequence 4, Appli	980	56.5	3.2	617	6	US-10-995-561-890	Sequence 890, App
909	57	3.3	274	7	US-11-156-062-16	Sequence 16, Appl	981	56.5	3.2	620	6	US-10-517-151-2	Sequence 2, Appli
910	57	3.3	318	6	US-10-821-234-1590	Sequence 1590, Ap	982	56.5	3.2	624	6	US-10-467-657-338	Sequence 338, App
911	57	3.3	318	6	US-10-887-002-2	Sequence 2, Appli	983	56.5	3.2	657	7	US-11-179-977-1	Sequence 1, Appli
							984	56.5	3.2	660	6	US-10-878-556A-102	Sequence 102, App

985	56.5	3.2	717	7	US-11-135-855-29	Sequence 29, Appl	1058	56	3.2	427	7	US-11-182-946-5	Sequence 5, Appli
986	56.5	3.2	721	7	US-11-128-059-88	Sequence 88, Appl	1059	56	3.2	427	7	US-11-185-878-4	Sequence 4, Appli
987	56.5	3.2	729	7	US-11-052-554A-72	Sequence 72, Appl	1060	56	3.2	433	6	US-10-895-861-40	Sequence 40, Appl
988	56.5	3.2	897	6	US-10-453-372-208	Sequence 208, App	1061	56	3.2	433	6	US-10-895-861-43	Sequence 43, Appl
989	56.5	3.2	931	7	US-11-128-059-86	Sequence 86, Appl	1062	56	3.2	433	6	US-10-895-861-46	Sequence 46, Appl
990	56.5	3.2	963	6	US-10-467-962B-2	Sequence 2, Appli	1063	56	3.2	433	6	US-10-895-861-47	Sequence 47, Appl
991	56.5	3.2	1075	7	US-11-174-150-34	Sequence 34, Appl	1064	56	3.2	433	6	US-10-895-861-54	Sequence 54, Appl
992	56.5	3.2	1081	7	US-11-113-751-38	Sequence 38, Appl	1065	56	3.2	433	6	US-10-895-861-58	Sequence 58, Appl
993	56.5	3.2	1114	7	US-11-174-150-35	Sequence 35, Appl	1066	56	3.2	433	6	US-10-895-861-58	Sequence 59, Appl
994	56.5	3.2	1121	7	US-11-113-751-19	Sequence 19, Appl	1067	56	3.2	435	6	US-10-895-861-55	Sequence 55, Appl
995	56.5	3.2	1125	6	US-10-821-234-1444	Sequence 1444, Ap	1068	56	3.2	435	6	US-10-895-861-60	Sequence 60, Appl
996	56.5	3.2	1323	7	US-11-128-059-92	Sequence 92, Appl	1069	56	3.2	500	7	US-11-067-573-2	Sequence 2, Appli
997	56.5	3.2	1327	7	US-11-128-059-84	Sequence 84, Appl	1070	56	3.2	501	6	US-10-895-861-1	Sequence 1, Appli
998	56.5	3.2	1356	6	US-10-922-232B-63	Sequence 529, App	1071	56	3.2	526	7	US-11-041-095-10	Sequence 10, Appl
999	56.5	3.2	1405	6	US-10-995-561-529	Sequence 63, Appl	1072	56	3.2	533	6	US-10-453-372-230	Sequence 230, App
1000	56.5	3.2	1406	6	US-10-995-561-530	Sequence 530, App	1073	56	3.2	533	6	US-10-453-372-232	Sequence 232, App
1001	56.5	3.2	1416	7	US-11-128-059-4	Sequence 4, Appli	1074	56	3.2	533	6	US-10-453-372-234	Sequence 234, App
1002	56.5	3.2	1436	6	US-10-995-561-531	Sequence 531, App	1075	56	3.2	552	6	US-10-453-372-236	Sequence 236, App
1003	56.5	3.2	1452	6	US-10-821-234-1102	Sequence 1102, Ap	1076	56	3.2	552	6	US-10-453-372-238	Sequence 238, App
1004	56.5	3.2	1502	6	US-10-453-372-252	Sequence 252, App	1077	56	3.2	552	6	US-10-453-372-244	Sequence 244, App
1005	56.5	3.2	1510	6	US-10-453-372-254	Sequence 254, App	1078	56	3.2	552	6	US-10-453-372-246	Sequence 246, App
1006	56.5	3.2	1694	7	US-11-052-554A-83	Sequence 83, Appl	1079	56	3.2	552	6	US-10-453-372-250	Sequence 250, App
1007	56.5	3.2	2313	7	US-11-128-059-80	Sequence 80, Appl	1080	56	3.2	567	6	US-10-954-468-8	Sequence 8, Appli
1008	56.5	3.2	2358	7	US-11-128-059-74	Sequence 74, Appl	1081	56	3.2	574	6	US-10-954-468-4	Sequence 4, Appli
1009	56.5	3.2	2417	6	US-10-453-372-228	Sequence 228, App	1082	56	3.2	580	6	US-10-954-468-6	Sequence 6, Appli
1010	56.5	3.2	2458	7	US-11-128-059-94	Sequence 94, Appl	1083	56	3.2	587	6	US-10-954-468-2	Sequence 2, Appli
1011	56.5	3.2	2551	6	US-10-453-372-256	Sequence 96, Appl	1084	56	3.2	615	6	US-10-954-468-7	Sequence 7, Appli
1012	56.5	3.2	2551	7	US-11-128-059-96	Sequence 51, Appl	1085	56	3.2	618	6	US-10-523-912-4	Sequence 4, Appli
1013	56.5	3.2	2715	7	US-11-113-424-51	Sequence 1080, Ap	1086	56	3.2	622	6	US-10-954-468-3	Sequence 3, Appli
1014	56.5	3.2	3003	6	US-10-453-372-1080	Sequence 64, Appl	1087	56	3.2	628	6	US-10-954-468-5	Sequence 5, Appli
1015	56.5	3.2	3157	7	US-11-052-554A-142	Sequence 142, App	1088	56	3.2	633	6	US-10-954-468-1	Sequence 1, Appli
1016	56.5	3.2	3353	7	US-11-037-243-64	Sequence 1082, Ap	1089	56	3.2	682	6	US-10-956-026-14	Sequence 14, Appl
1017	56.5	3.2	3361	6	US-10-453-372-1082	Sequence 5, Appli	1090	56	3.2	685	7	US-11-150-883-51	Sequence 51, Appl
1018	56.5	3.2	3655	7	US-11-075-185-5	Sequence 1016, Ap	1091	56	3.2	693	7	US-11-196-475-72	Sequence 72, Appl
1019	56.5	3.2	3690	6	US-10-995-561-1016	Sequence 1015, Ap	1092	56	3.2	756	6	US-10-956-026-13	Sequence 13, Appl
1020	56.5	3.2	3714	6	US-10-995-561-1015	Sequence 141, App	1093	56	3.2	790	6	US-10-995-561-955	Sequence 955, App
1021	56.5	3.2	3716	7	US-11-052-554A-141	Sequence 214, App	1094	56	3.2	792	7	US-11-103-957-92	Sequence 92, Appl
1022	56	3.2	116	6	US-10-925-366A-214	Sequence 43, Appl	1095	56	3.2	810	7	US-11-052-554A-245	Sequence 245, App
1023	56	3.2	125	7	US-11-127-903-43	Sequence 76, Appl	1096	56	3.2	830	6	US-10-995-561-957	Sequence 957, App
1024	56	3.2	128	7	US-11-049-536-76	Sequence 143, App	1097	56	3.2	830	6	US-10-995-561-958	Sequence 958, App
1025	56	3.2	129	7	US-11-064-174-143	Sequence 127, App	1098	56	3.2	837	7	US-11-052-554A-159	Sequence 159, App
1026	56	3.2	139	7	US-11-226-325-127	Sequence 224, App	1099	56	3.2	857	7	US-11-052-554A-218	Sequence 218, App
1027	56	3.2	213	6	US-10-517-939-224	Sequence 366, App	1100	56	3.2	859	7	US-11-000-463-895	Sequence 423, App
1028	56	3.2	222	6	US-10-714-887-366	Sequence 995, App	1101	56	3.2	859	7	US-11-000-463-895	Sequence 191, App
1029	56	3.2	243	7	US-11-054-515-995	Sequence 2, Appli	1102	56	3.2	941	7	US-11-124-368A-191	Sequence 193, App
1030	56	3.2	244	6	US-10-924-074-2	Sequence 1639, Ap	1103	56	3.2	948	7	US-11-124-368A-193	Sequence 192, Appl
1031	56	3.2	244	7	US-11-054-515-1639	Sequence 1979, Ap	1104	56	3.2	998	6	US-10-510-524-1	Sequence 1, Appli
1032	56	3.2	245	7	US-11-054-515-1979	Sequence 1655, Ap	1105	56	3.2	1037	7	US-11-052-554A-250	Sequence 250, App
1033	56	3.2	246	7	US-11-054-515-1241	Sequence 1241, Ap	1106	56	3.2	1250	7	US-11-052-554A-16	Sequence 16, Appl
1034	56	3.2	246	7	US-11-054-515-1655	Sequence 1665, Ap	1107	56	3.2	1255	7	US-11-052-554A-273	Sequence 273, App
1035	56	3.2	248	7	US-11-054-515-1665	Sequence 889, App	1108	56	3.2	1255	7	US-11-052-554A-274	Sequence 274, App
1036	56	3.2	251	7	US-11-054-515-889	Sequence 1518, Ap	1109	56	3.2	1255	7	US-11-052-554A-275	Sequence 275, App
1037	56	3.2	252	7	US-11-054-515-1518	Sequence 178, App	1110	56	3.2	1476	6	US-10-647-956A-4	Sequence 4, Appli
1038	56	3.2	254	7	US-11-067-323-178	Sequence 182, App	1111	56	3.2	1476	6	US-11-057-058-60	Sequence 60, Appl
1039	56	3.2	254	7	US-11-067-323-188	Sequence 188, App	1112	56	3.2	1857	7	US-11-057-058-61	Sequence 61, Appl
1040	56	3.2	254	7	US-11-067-323-190	Sequence 190, App	1113	56	3.2	1857	7	US-11-057-058-61	Sequence 1004, Ap
1041	56	3.2	254	7	US-11-067-323-218	Sequence 218, App	1114	56	3.2	1902	6	US-10-453-372-1004	Sequence 2, Appli
1042	56	3.2	254	7	US-11-067-323-222	Sequence 222, App	1115	56	3.2	1933	6	US-10-523-912-2	Sequence 52, Appl
1043	56	3.2	254	7	US-11-067-323-222	Sequence 256, App	1116	56	3.2	1933	6	US-11-113-424-52	Sequence 42, Appl
1044	56	3.2	254	7	US-11-067-323-256	Sequence 276, App	1117	56	3.2	2725	7	US-10-453-372-42	Sequence 32, Appl
1045	56	3.2	254	7	US-11-067-323-276	Sequence 324, App	1118	56	3.2	3130	6	US-10-453-372-32	Sequence 20, Appl
1046	56	3.2	254	7	US-11-067-323-324	Sequence 340, App	1119	56	3.2	3546	6	US-11-065-695-20	Sequence 273, App
1047	56	3.2	254	7	US-11-067-323-340	Sequence 378, App	1120	55.5	3.2	5636	6	US-10-834-397-273	Sequence 276, App
1048	56	3.2	254	7	US-11-067-323-378	Sequence 11295, A	1121	55.5	3.2	219	6	US-10-834-397-276	Sequence 295, App
1049	56	3.2	288	7	US-11-098-686-11295	Sequence 55, Appl	1122	55.5	3.2	219	6	US-10-834-397-295	Sequence 297, App
1050	56	3.2	310	6	US-10-527-500-55	Sequence 66, Appl	1123	55.5	3.2	219	6	US-10-834-397-297	Sequence 34, Appl
1051	56	3.2	339	7	US-11-226-657-66	Sequence 174, App	1124	55.5	3.2	219	6	US-11-134-795-14	Sequence 369, App
1052	56	3.2	340	7	US-11-226-657-174	Sequence 70, Appl	1125	55.5	3.2	219	6	US-11-170-653-34	Sequence 332, App
1053	56	3.2	349	7	US-11-129-143-70	Sequence 74, Appl	1126	55.5	3.2	223	7	US-10-884-730-369	Sequence 2015, Ap
1054	56	3.2	354	7	US-11-108-528-74	Sequence 59, Appl	1127	55.5	3.2	231	6	US-11-052-554A-332	Sequence 2038, Ap
1055	56	3.2	373	7	US-11-054-281-59	Sequence 28, Appl	1128	55.5	3.2	232	7	US-11-054-515-2015	Sequence 1915, Ap
1056	56	3.2	384	6	US-10-838-616-28	Sequence 89, Appl	1129	55.5	3.2	239	7	US-11-054-515-1915	
1057	56	3.2	413	7	US-11-037-243-89		1130	55.5	3.2	242	7		
							1131						

1132	55.5	3.2	247	7	US-11-054-515-1429	Sequence 1429, Ap	1205	55.5	3.2	3104	6	US-10-453-372-64	Sequence 64, Appl
1133	55.5	3.2	249	7	US-11-054-515-1138	Sequence 1138, Ap	1206	55.5	3.2	3433	6	US-10-714-781A-67	Sequence 67, Appl
1134	55.5	3.2	251	7	US-11-054-515-1207	Sequence 1207, Ap	1207	55	3.1	118	7	US-11-012-353-71	Sequence 71, Appl
1135	55.5	3.2	251	7	US-11-054-515-1374	Sequence 1374, Ap	1208	55	3.1	120	7	US-11-226-325-198	Sequence 198, App
1136	55.5	3.2	253	7	US-11-054-515-1814	Sequence 1814, Ap	1209	55	3.1	120	7	US-11-226-325-201	Sequence 201, App
1137	55.5	3.2	254	7	US-11-067-323-680	Sequence 680, App	1210	55	3.1	120	7	US-11-226-325-202	Sequence 202, App
1138	55.5	3.2	256	7	US-11-054-515-1600	Sequence 1600, Ap	1211	55	3.1	122	7	US-11-049-536-186	Sequence 186, App
1139	55.5	3.2	257	7	US-11-056-825-10	Sequence 10, Appl	1212	55	3.1	122	7	US-11-049-536-574	Sequence 574, Appl
1140	55.5	3.2	261	6	US-10-454-437-126	Sequence 126, App	1213	55	3.1	125	6	US-10-982-440-35	Sequence 35, Appl
1141	55.5	3.2	261	6	US-10-454-437-128	Sequence 128, App	1214	55	3.1	139	7	US-11-226-325-4	Sequence 4, Appli
1142	55.5	3.2	277	6	US-10-821-234-1328	Sequence 1328, Ap	1215	55	3.1	139	7	US-11-226-325-44	Sequence 44, Appl
1143	55.5	3.2	277	6	US-10-878-556A-54	Sequence 54, Appl	1216	55	3.1	139	7	US-11-226-325-100	Sequence 100, App
1144	55.5	3.2	284	7	US-11-124-367A-382	Sequence 382, App	1217	55	3.1	223	7	US-11-170-653-30	Sequence 30, Appl
1145	55.5	3.2	288	6	US-10-467-657-496	Sequence 496, App	1218	55	3.1	243	7	US-11-054-515-1940	Sequence 1940, Ap
1146	55.5	3.2	316	7	US-11-010-239-103	Sequence 103, App	1219	55	3.1	245	7	US-11-054-515-1436	Sequence 1436, Ap
1147	55.5	3.2	330	6	US-10-485-517-415	Sequence 415, App	1220	55	3.1	247	7	US-11-054-515-1352	Sequence 1352, Ap
1148	55.5	3.2	335	6	US-10-873-528-4	Sequence 4, Appli	1221	55	3.1	257	6	US-10-995-561-747	Sequence 747, App
1149	55.5	3.2	378	7	US-11-055-822-1056	Sequence 1056, Ap	1222	55	3.1	270	7	US-11-098-686-10898	Sequence 10898, A
1150	55.5	3.2	380	7	US-11-089-551A-25	Sequence 25, Appl	1223	55	3.1	283	7	US-11-205-109-5	Sequence 5, Appli
1151	55.5	3.2	384	7	US-11-074-176-78	Sequence 78, Appl	1224	55	3.1	328	7	US-11-152-697-4	Sequence 4, Appli
1152	55.5	3.2	407	7	US-11-166-412-57	Sequence 57, Appl	1225	55	3.1	330	6	US-10-453-372-516	Sequence 516, App
1153	55.5	3.2	421	7	US-11-098-686-10880	Sequence 10880, A	1226	55	3.1	336	6	US-10-453-372-510	Sequence 510, App
1154	55.5	3.2	427	6	US-10-467-657-4384	Sequence 4384, Ap	1227	55	3.1	348	6	US-10-517-939-162	Sequence 162, App
1155	55.5	3.2	442	7	US-11-102-621-124	Sequence 124, App	1228	55	3.1	354	7	US-11-108-528-72	Sequence 72, Appl
1156	55.5	3.2	442	7	US-11-102-621-125	Sequence 125, App	1229	55	3.1	367	7	US-11-150-887-44	Sequence 44, Appl
1157	55.5	3.2	442	7	US-11-102-621-126	Sequence 126, App	1230	55	3.1	369	7	US-11-024-959-485	Sequence 485, App
1158	55.5	3.2	442	7	US-11-102-621-127	Sequence 127, App	1231	55	3.1	417	7	US-11-186-284-107	Sequence 107, App
1159	55.5	3.2	442	7	US-11-102-621-128	Sequence 128, App	1232	55	3.1	425	7	US-11-219-995-8	Sequence 8, Appli
1160	55.5	3.2	444	6	US-10-525-710-48	Sequence 48, Appl	1233	55	3.1	441	7	US-11-237-600-63	Sequence 63, Appl
1161	55.5	3.2	446	7	US-11-102-621-119	Sequence 119, App	1234	55	3.1	446	6	US-10-793-626-2250	Sequence 2250, Ap
1162	55.5	3.2	446	7	US-11-102-621-120	Sequence 120, App	1235	55	3.1	457	7	US-11-194-246-326	Sequence 326, App
1163	55.5	3.2	446	7	US-11-102-621-121	Sequence 121, App	1236	55	3.1	470	7	US-11-186-284-123	Sequence 123, App
1164	55.5	3.2	446	7	US-11-102-621-122	Sequence 122, App	1237	55	3.1	477	7	US-11-089-551A-34	Sequence 34, Appl
1165	55.5	3.2	446	7	US-11-102-621-123	Sequence 123, App	1238	55	3.1	487	7	US-11-147-047-50	Sequence 50, Appl
1166	55.5	3.2	463	6	US-10-793-626-960	Sequence 960, App	1239	55	3.1	495	6	US-10-510-386-188	Sequence 188, App
1167	55.5	3.2	488	7	US-11-092-140-110	Sequence 110, App	1240	55	3.1	523	7	US-11-024-959-371	Sequence 371, App
1168	55.5	3.2	491	6	US-10-641-678-65	Sequence 65, Appl	1241	55	3.1	525	7	US-11-052-554A-209	Sequence 209, App
1169	55.5	3.2	511	6	US-10-641-678-42	Sequence 42, Appl	1242	55	3.1	546	7	US-11-143-980-38	Sequence 38, Appl
1170	55.5	3.2	514	6	US-10-957-569-48	Sequence 48, Appl	1243	55	3.1	552	6	US-10-453-372-240	Sequence 240, App
1171	55.5	3.2	514	7	US-11-097-589-47	Sequence 47, Appl	1244	55	3.1	582	7	US-11-090-439-58	Sequence 58, Appl
1172	55.5	3.2	529	7	US-11-166-412-58	Sequence 58, Appl	1245	55	3.1	586	7	US-11-073-112-18	Sequence 18, Appl
1173	55.5	3.2	534	6	US-10-510-386-6	Sequence 230, App	1246	55	3.1	657	6	US-10-957-880-4	Sequence 4, Appli
1174	55.5	3.2	546	7	US-11-166-412-59	Sequence 59, Appl	1247	55	3.1	657	7	US-11-052-554A-113	Sequence 113, App
1175	55.5	3.2	625	6	US-10-510-386-5	Sequence 6, Appli	1248	55	3.1	669	6	US-10-997-201A-30	Sequence 30, Appl
1176	55.5	3.2	685	6	US-10-490-824-5	Sequence 5, Appli	1250	55	3.1	715	7	US-11-052-554A-290	Sequence 290, App
1177	55.5	3.2	697	7	US-11-103-957-39	Sequence 39, Appl	1251	55	3.1	758	7	US-11-024-959-347	Sequence 347, App
1178	55.5	3.2	703	6	US-10-467-657-7158	Sequence 7158, Ap	1252	55	3.1	768	6	US-10-995-561-956	Sequence 956, App
1179	55.5	3.2	710	7	US-11-143-980-40	Sequence 40, Appl	1253	55	3.1	778	7	US-11-052-554A-144	Sequence 144, App
1180	55.5	3.2	731	7	US-11-024-959-421	Sequence 421, App	1254	55	3.1	824	7	US-11-116-939-11	Sequence 11, Appl
1181	55.5	3.2	776	6	US-10-453-372-44	Sequence 44, Appl	1255	55	3.1	843	6	US-10-645-441-8	Sequence 8, Appli
1182	55.5	3.2	776	6	US-10-453-372-46	Sequence 46, Appl	1256	55	3.1	861	7	US-11-038-284-36	Sequence 36, Appl
1183	55.5	3.2	882	6	US-10-453-372-60	Sequence 60, Appl	1257	55	3.1	875	6	US-10-933-025-12	Sequence 12, Appl
1184	55.5	3.2	884	6	US-10-453-372-58	Sequence 58, Appl	1258	55	3.1	875	6	US-10-933-025-18	Sequence 18, Appl
1185	55.5	3.2	884	7	US-11-098-686-11426	Sequence 11426, A	1259	55	3.1	898	6	US-10-624-932-2	Sequence 2, Appli
1186	55.5	3.2	914	7	US-11-148-108-41	Sequence 41, Appl	1260	55	3.1	898	6	US-10-453-372-514	Sequence 514, App
1187	55.5	3.2	967	7	US-11-124-367A-312	Sequence 312, App	1262	55	3.1	963	7	US-11-183-136-16	Sequence 16, Appl
1188	55.5	3.2	1045	7	US-11-113-424-54	Sequence 54, Appl	1263	55	3.1	1206	6	US-10-858-730-73	Sequence 73, Appl
1189	55.5	3.2	1094	6	US-10-821-234-1097	Sequence 1097, Ap	1264	55	3.1	1255	7	US-11-022-562-235	Sequence 235, App
1190	55.5	3.2	1369	7	US-11-124-367A-311	Sequence 311, App	1265	55	3.1	1255	7	US-11-052-554A-265	Sequence 265, App
1191	55.5	3.2	1484	6	US-10-517-939-74	Sequence 74, Appl	1266	55	3.1	1255	7	US-11-052-554A-266	Sequence 266, App
1192	55.5	3.2	1574	6	US-10-055-877-211	Sequence 211, App	1267	55	3.1	1255	7	US-11-052-554A-267	Sequence 267, App
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1194	55.5	3.2	2376	7	US-11-096-051-4	Sequence 4, Appli	1269	55	3.1	1255	7	US-11-052-554A-269	Sequence 269, App
1195	55.5	3.2	2491	6	US-10-995-561-769	Sequence 769, App	1270	55	3.1	1255	7	US-11-052-554A-270	Sequence 270, App
1196	55.5	3.2	2612	6	US-10-453-372-38	Sequence 38, Appl	1271	55	3.1	1255	7	US-11-052-554A-271	Sequence 271, App
1197	55.5	3.2	2669	6	US-10-453-372-36	Sequence 36, Appl	1272	55	3.1	1255	7	US-11-052-554A-272	Sequence 272, App
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1199	55.5	3.2	2721	7	US-11-096-051-10	Sequence 10, Appl	1274	55	3.1	1565	6	US-10-467-657-2704	Sequence 2704, Ap
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1201	55.5	3.2	2768	6	US-10-510-101-72	Sequence 72, Appl	1276	55	3.1	1697	7	US-11-019-711-68	Sequence 68, Appl
1202	55.5	3.2	2911	7	US-11-090-617-706	Sequence 706, App	1277	55	3.1	1723	7	US-11-019-711-18	Sequence 18, Appl
1203	55.5	3.2	3104	6	US-10-453-372-34	Sequence 34, Appl	1278	55	3.1	1730	7	US-11-182-016-19	Sequence 19, Appl
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1280	55	3.1	3500	7	US-11-085-775-2	Sequence 2, Appli	1356	54.5	3.1	1001	7	US-11-132-285-40	Sequence 40, Appl
1281	54.5	3.1	120	7	US-11-049-536-618	Sequence 618, App	1357	54.5	3.1	1083	7	US-11-113-751-40	Sequence 40, Appl
1282	54.5	3.1	127	7	US-11-049-536-446	Sequence 446, App	1358	54.5	3.1	1345	7	US-11-052-554A-282	Sequence 282, App
1283	54.5	3.1	208	7	US-11-214-413-32	Sequence 32, Appl	1359	54.5	3.1	1394	6	US-10-467-657-7930	Sequence 7930, Ap
1284	54.5	3.1	211	7	US-11-055-822-384	Sequence 384, App	1360	54.5	3.1	1458	7	US-11-096-274-2	Sequence 2, Appli
1286	54.5	3.1	232	6	US-10-884-730-363	Sequence 363, App	1361	54.5	3.1	1544	6	US-10-453-372-1186	Sequence 1186, Ap
1287	54.5	3.1	232	6	US-10-884-730-364	Sequence 364, App	1362	54.5	3.1	1566	6	US-10-453-372-1180	Sequence 1180, Ap
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1290	54.5	3.1	240	7	US-11-007-282-8	Sequence 8, Appli	1365	54.5	3.1	1744	7	US-11-182-016-22	Sequence 22, Appl
1291	54.5	3.1	240	7	US-11-007-282-13	Sequence 13, Appl	1366	54.5	3.1	2053	6	US-10-453-372-1174	Sequence 1174, Ap
1292	54.5	3.1	241	7	US-11-054-515-1577	Sequence 1577, Ap	1367	54.5	3.1	2143	6	US-10-453-372-1188	Sequence 1188, Ap
1293	54.5	3.1	247	7	US-11-054-515-1434	Sequence 1434, Ap	1368	54.5	3.1	2314	7	US-11-013-759-11	Sequence 11, Appl
1294	54.5	3.1	247	7	US-11-054-515-1654	Sequence 1654, Ap	1369	54.5	3.1	2828	7	US-11-080-991-54	Sequence 54, Appl
1295	54.5	3.1	247	7	US-11-054-515-1680	Sequence 1680, Ap	1370	54.5	3.1	2828	7	US-11-186-284-49	Sequence 49, Appl
1296	54.5	3.1	247	7	US-11-054-515-1704	Sequence 1704, Ap	1371	54	3.1	80	6	US-10-821-234-949	Sequence 949, App
1297	54.5	3.1	248	7	US-11-054-515-1705	Sequence 1705, Ap	1372	54	3.1	118	6	US-10-771-257-8	Sequence 8, Appli
1298	54.5	3.1	249	7	US-11-054-515-1897	Sequence 1897, Ap	1373	54	3.1	118	7	US-11-127-677-8	Sequence 8, Appli
1299	54.5	3.1	249	7	US-11-054-515-2078	Sequence 2078, Ap	1374	54	3.1	128	6	US-10-982-440-29	Sequence 29, Appl
1300	54.5	3.1	250	7	US-11-054-515-942	Sequence 942, App	1375	54	3.1	139	7	US-11-226-325-20	Sequence 20, Appl
1301	54.5	3.1	250	7	US-11-054-515-964	Sequence 964, App	1376	54	3.1	139	7	US-11-226-325-22	Sequence 22, Appl
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1305	54.5	3.1	254	7	US-11-067-323-466	Sequence 466, App	1380	54	3.1	146	6	US-10-793-626-1868	Sequence 1868, Ap
1306	54.5	3.1	254	7	US-11-067-323-634	Sequence 634, App	1381	54	3.1	162	6	US-10-467-657-1176	Sequence 1176, Ap
1307	54.5	3.1	254	7	US-11-067-323-937	Sequence 937, App	1382	54	3.1	163	6	US-10-510-386-194	Sequence 194, App
1308	54.5	3.1	258	7	US-11-054-515-1173	Sequence 1173, Ap	1383	54	3.1	189	6	US-10-517-939-190	Sequence 190, App
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1330	54.5	3.1	446	7	US-11-112-882-25	Sequence 25, Appl	1404	54	3.1	254	7	US-11-067-323-764	Sequence 764, App
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1486	54	3.1	339	6	US-10-995-561-685	Sequence 685, App
1487	54	3.1	339	6	US-10-995-561-686	Sequence 686, App
1488	54	3.1	339	6	US-10-995-561-687	Sequence 687, App
1489	54	3.1	339	7	US-11-186-284-43	Sequence 43, Appl
1490	54	3.1	339	7	US-11-185-877-11	Sequence 11, Appl
1491	54	3.1	341	7	US-11-207-626A-36	Sequence 36, Appl
1492	54	3.1	344	7	US-11-108-163B-10	Sequence 10, Appl
1493	54	3.1	352	7	US-11-156-084-120	Sequence 120, App
1494	54	3.1	370	6	US-10-793-626-1064	Sequence 1064, Ap
1495	54	3.1	376	7	US-11-198-685-6	Sequence 6, Appli
1496	54	3.1	376	7	US-11-198-069-6	Sequence 6, Appli
1497	54	3.1	379	7	US-11-136-619-22	Sequence 22, Appl
1498	54	3.1	379	7	US-11-136-619-23	Sequence 23, Appl
1499	54	3.1	387	6	US-10-714-887-278	Sequence 278, App
1500	54	3.1	415	6	US-10-467-657-10	Sequence 10, Appl

Job time : 23 secs

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OM protein - protein search, using sw model
Run on: February 8, 2006, 19:32:29 ; Search time 203 seconds
(without alignments)
677.466 Million cell updates/sec

Title: US-10-063-595-88
Perfect score: 1747
Sequence: 1 MNQLSFLFLFLIATTRGWSSTD.....HVGYSRSSREITEAAVLLFYR 313
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 243163 seqs, 439378781 residues
Total number of hits satisfying chosen parameters: 2443163
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries
Database : A_Geneseq_21:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
SUMMARIES

No.	Score	Match	Length	DB	ID	Description
RESULT 1						
ID	AAY66760	standard; protein; 313 AA.				
DE	Membrane-bound protein PRO1270.					
PN	WO9963088-A2.					
PD	09-DEC-1999.					
PA	(GETH) GENENTECH INC.					
Query Match	100.0%;	Score 1747;	DB 3;	Length 313;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-151;				
RESULT 2						
ID	AAY94858	standard; protein; 313 AA.				
DE	Human protein clone HP01426.					
PN	WO200005367-A2.					
PD	03-FEB-2000.					
PA	(SAGA) SAGAMI CHEM RES CENT.					
(PROT-) PROTEGENE INC.						
Query Match	100.0%;	Score 1747;	DB 3;	Length 313;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-151;				
RESULT 3						
ID	AAY71909	standard; protein; 313 AA.				
DE	Human TH2AF1 isotype #6.					
PN	WO200066708-A2.					
PD	09-NOV-2000.					
PA	(MAGA-) MAGAININ PHARM INC.					
Query Match	100.0%;	Score 1747;	DB 3;	Length 313;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-151;				
RESULT 4						
ID	AAU29170	standard; protein; 313 AA.				
DE	Human PRO polypeptide sequence #147.					
PN	WO200168948-A2.					
PD	20-SEP-2001.					
PA	(GETH) GENENTECH INC.					
Query Match	100.0%;	Score 1747;	DB 4;	Length 313;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-151;				
RESULT 5						
ID	AAB87569	standard; protein; 313 AA.				
DE	Human PRO1270.					
PN	WO200116318-A2.					
PD	08-MAR-2001.					
PA	(GETH) GENENTECH INC.					
Query Match	100.0%;	Score 1747;	DB 4;	Length 313;		
Best Local Similarity	100.0%;	Pred. No. 2.3e-151;				
RESULT 6						
ID	AAB65283	standard; protein; 313 AA.				

DE Human PRO1270 (UNQ640) protein sequence SEQ ID NO:414.
PN WO200073454-A1.
PD 07-DEC-2000.
PA (GETH) GENENTECH INC.
Query Match 100.0%; Score 1747; DB 4; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 7
ID ABG95894 standard; protein; 313 AA.
DE Human secreted/transmembrane protein PRO1270.
PN US2002119130-A1.
PD 29-AUG-2002.
PA (GETH) GENENTECH INC.
Query Match 100.0%; Score 1747; DB 5; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 8
ID ABU58546 standard; protein; 313 AA.
DE Human PRO polypeptide #147.
PN US2003027272-A1.
PD 06-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 9
ID ABU88094 standard; protein; 313 AA.
DE Novel human secreted and transmembrane protein PRO1270.
PN US2003032127-A1.
PD 13-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 10
ID ABU84409 standard; protein; 313 AA.
DE Human secreted/transmembrane protein (PRO) #147.
PN US2003032112-A1.
PD 13-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 11
ID ABR66283 standard; protein; 313 AA.
DE Human secreted polypeptide PRO1270, SEQ ID NO:294.
PN US2003027278-A1.
PD 06-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 12
ID ABR65673 standard; protein; 313 AA.
DE Human secreted polypeptide PRO1270, SEQ ID NO:294.
PN US2003036159-A1.
PD 20-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 13
ID ABU99613 standard; protein; 313 AA.
DE Human secreted/transmembrane protein (PRO) #147.
PN US2003040070-A1.
PD 27-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 14
ID ABU58098 standard; protein; 313 AA.
DE Human PRO polypeptide #130.
PN US2003027163-A1.
PD 06-FEB-2003.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;
RESULT 15
ID ABU59176 standard; protein; 313 AA.
DE Novel human secreted or transmembrane protein PRO1270.
PN US2002132252-A1.
PD 19-SEP-2002.
PA (GETH) GENENTECH INC.
Query Match 100.0%; Score 1747; DB 6; Length 313;
Best Local Similarity 100.0%; Pred. No. 2.3e-151;

Wegert, S.
101863595
Seq. ID 88

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 8, 2006, 19:42:39 ; Search time 50 Seconds
(without alignments)
517.550 Million cell updates/sec

Perfect score: 1747
Sequence: 1 MNQLSFLFLPLIATTRGWSTD.....HVGYSRSSREITEAAVLLFYR 313

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1747	100.0	313	2	US-09-709-677-4	Sequence 4, Appli
6	1743	99.8	313	2	US-09-124-758-4	Sequence 4, Appli
7	1738	99.5	313	2	US-09-646-693-2	Sequence 2, Appli
8	1733	99.2	313	2	US-09-973-278-156	Sequence 156, App
9	1733	99.2	314	2	US-09-227-357-155	Sequence 155, App
10	1449.5	83.0	325	2	US-09-709-677-6	Sequence 6, Appli
11	1446.5	82.8	325	2	US-09-124-758-6	Sequence 6, Appli
12	1044.5	59.8	313	2	US-09-124-758-2	Sequence 2, Appli
13	1044.5	59.8	313	2	US-09-709-677-2	Sequence 2, Appli
14	681	39.0	127	2	US-09-646-693-4	Sequence 4, Appli
15	524	30.0	142	2	US-09-621-976-3907	Sequence 3907, Ap
16	129.5	7.4	282	2	US-08-812-586-49	Sequence 49, Appl
17	129.5	7.4	282	2	US-09-535-832A-46	Sequence 46, Appl
18	112	6.4	19	2	US-09-227-357-325	Sequence 325, App
19	112	6.4	19	2	US-09-973-278-320	Sequence 320, App
20	109	6.2	491	1	US-08-206-176-4	Sequence 4, Appli
21	109	6.2	493	2	US-09-949-016-9617	Sequence 9617, Ap
22	108	6.2	488	2	US-09-191-039-33	Sequence 33, Appl
23	102.5	5.9	496	2	US-09-202-491-7	Sequence 7, Appli
24	102.5	5.9	496	2	US-10-215-224-7	Sequence 7, Appli
25	102.5	5.9	496	2	US-10-214-812-7	Sequence 7, Appli
26	99	5.7	22	2	US-09-124-758-7	Sequence 7, Appli
27	99	5.7	22	2	US-09-709-677-7	Sequence 7, Appli
28	99	5.7	460	1	US-08-933-821-17	Sequence 17, Appl
29	99	5.7	460	2	US-08-934-494-6	Sequence 6, Appli
30	99	5.7	460	2	US-08-960-507-17	Sequence 17, Appl
31	99	5.7	460	2	US-09-143-068-6	Sequence 6, Appli
32	99	5.7	460	2	US-09-143-707-6	Sequence 6, Appli

33	99	5.7	460	2	US-09-202-089-6	Sequence 6, Appli
34	99	5.7	460	2	US-09-136-828-17	Sequence 17, Appl
35	99	5.7	460	2	US-09-332-928A-17	Sequence 17, Appl
36	99	5.7	460	2	US-09-511-133-6	Sequence 6, Appli
37	99	5.7	460	2	US-09-136-801-17	Sequence 17, Appl
38	99	5.7	460	2	US-09-332-929-17	Sequence 17, Appl
39	99	5.7	460	2	US-09-690-169-6	Sequence 6, Appli
40	99	5.7	460	2	US-09-511-631-6	Sequence 6, Appli
41	99	5.7	460	2	US-09-333-075-17	Sequence 17, Appl
42	99	5.7	460	2	US-09-690-189-6	Sequence 6, Appli
43	99	5.7	460	2	US-09-202-088A-17	Sequence 17, Appl
44	99	5.7	460	2	US-09-333-077-17	Sequence 17, Appl
45	99	5.7	475	2	US-09-949-016-7940	Sequence 7940, Ap
46	98.5	5.6	725	2	US-09-303-518D-666	Sequence 666, App
47	97.5	5.6	503	2	US-08-740-223A-11	Sequence 11, Appl
48	97.5	5.6	503	2	US-09-709-188-11	Sequence 11, Appl
49	97.5	5.6	503	2	US-10-225-060-11	Sequence 11, Appl
50	97.5	5.6	509	1	US-08-665-926-8	Sequence 8, Appli
51	97.5	5.6	509	2	US-08-740-223A-10	Sequence 10, Appl
52	97.5	5.6	509	2	US-09-202-491-2	Sequence 2, Appli
53	97.5	5.6	509	2	US-09-202-491-3	Sequence 3, Appli
54	97.5	5.6	509	2	US-09-709-188-10	Sequence 10, Appl
55	97.5	5.6	509	2	US-10-225-060-10	Sequence 10, Appl
56	97.5	5.6	509	2	US-10-018-386-5	Sequence 5, Appli
57	97.5	5.6	509	2	US-10-215-224-2	Sequence 2, Appli
58	97.5	5.6	509	2	US-10-215-224-3	Sequence 3, Appli
59	97.5	5.6	509	2	US-10-214-812-2	Sequence 2, Appli
60	97.5	5.6	509	2	US-10-214-812-3	Sequence 3, Appli
65	95.5	5.5	450	1	US-08-861-464-2	Sequence 2, Appli
66	95.5	5.5	450	1	US-08-396-001-2	Sequence 2, Appli
67	95.5	5.5	450	2	US-09-323-433A-2	Sequence 2, Appli
68	95.5	5.5	450	2	US-09-826-752-2	Sequence 2, Appli
69	95	5.4	725	2	US-09-303-518D-668	Sequence 668, App
70	94.5	5.4	236	2	US-08-886-269-5	Sequence 5, Appli
71	94.5	5.4	236	2	US-09-167-647-3	Sequence 3, Appli
72	92.5	5.3	288	2	US-08-934-494-4	Sequence 4, Appli
73	92.5	5.3	288	2	US-09-143-068-4	Sequence 4, Appli
74	92.5	5.3	288	2	US-09-143-707-4	Sequence 4, Appli
75	92.5	5.3	288	2	US-09-202-089-4	Sequence 4, Appli
76	92.5	5.3	288	2	US-09-511-133-4	Sequence 4, Appli
77	92.5	5.3	288	2	US-09-690-169-4	Sequence 4, Appli
78	92.5	5.3	288	2	US-09-511-631-4	Sequence 4, Appli
79	92.5	5.3	288	2	US-09-690-189-4	Sequence 4, Appli
80	92	5.3	286	2	US-08-960-507-20	Sequence 20, Appl
81	92	5.3	286	2	US-09-136-801-20	Sequence 20, Appl
82	92	5.3	286	2	US-09-202-088A-20	Sequence 20, Appl
83	92	5.3	308	2	US-09-949-016-8341	Sequence 8341, Ap
84	92	5.3	314	1	US-08-525-505A-2	Sequence 2, Appli
85	92	5.3	480	2	US-08-740-223A-8	Sequence 8, Appli
86	92	5.3	480	2	US-09-709-188-8	Sequence 8, Appli
87	92	5.3	480	2	US-10-225-060-8	Sequence 8, Appli
88	92	5.3	496	1	US-08-373-579-6	Sequence 6, Appli
89	92	5.3	496	1	US-08-418-595-6	Sequence 6, Appli
90	92	5.3	496	1	US-08-665-926-6	Sequence 6, Appli
91	92	5.3	496	2	US-09-162-437-6	Sequence 6, Appli
92	92	5.3	496	2	US-08-740-223A-6	Sequence 6, Appli
93	92	5.3	496	2	US-09-351-457-4	Sequence 4, Appli
94	92	5.3	496	2	US-09-561-500-4	Sequence 4, Appli
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96	92	5.3	496	2	US-09-351-543-4	Sequence 4, Appli
97	92	5.3	496	2	US-09-561-526-4	Sequence 4, Appli
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99	92	5.3	496	2	US-08-817-318-6	Sequence 6, Appli
100	92	5.3	496	2	US-09-709-188-6	Sequence 6, Appli
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102	92	5.3	496	2	US-09-442-717-6	Sequence 6, Appli
103	92	5.3	496	2	US-09-689-020-6	Sequence 6, Appli
104	92	5.3	496	2	US-09-998-831-4	Sequence 4, Appli
105	92	5.3	496	2	US-09-561-005-4	Sequence 4, Appli
106	92	5.3	496	2	US-09-819-386-4	Sequence 4, Appli
107	92	5.3	496	2	US-09-351-598-4	Sequence 4, Appli
108	92	5.3	496	2	US-10-225-060-6	Sequence 6, Appli
109	92	5.3	496	2	US-10-018-386-4	Sequence 4, Appli

110	92	5.3	496	2	US-10-215-224-8	Sequence 8, Appli	183	85.5	4.9	866	2	US-09-949-002-302	Sequence 302, App
111	92	5.3	496	2	US-10-214-812-8	Sequence 8, Appli	184	85.5	4.9	875	2	US-09-949-016-8582	Sequence 8582, Ap
112	92	5.3	496	2	US-09-562-245-4	Sequence 4, Appli	185	85.5	4.9	875	2	US-09-949-002-455	Sequence 455, App
113	92	5.3	499	2	US-08-740-223A-24	Sequence 24, Appl	186	85.5	4.9	1351	2	US-09-489-039A-11032	Sequence 11032, A
114	92	5.3	499	2	US-09-709-188-24	Sequence 24, Appl	187	85.5	4.9	1358	1	US-08-404-665-4	Sequence 4, Appli
115	92	5.3	499	2	US-10-225-060-24	Sequence 24, Appl	188	85.5	4.9	1358	1	US-08-404-671-4	Sequence 4, Appli
116	91.5	5.2	2199	2	US-08-793-273C-2	Sequence 2, Appli	189	85.5	4.9	1358	1	US-08-404-781-4	Sequence 4, Appli
117	91.5	5.2	2199	4	PCT-US95-11684-2	Sequence 2, Appli	190	85.5	4.9	1358	2	US-09-949-002-353	Sequence 353, App
118	91	5.2	466	1	US-08-955-138-7	Sequence 7, Appli	191	85.5	4.9	1385	2	US-09-949-002-431	Sequence 431, App
119	91	5.2	625	2	US-10-296-144-2	Sequence 2, Appli	192	85.5	4.9	1806	2	US-09-919-497-56	Sequence 56, Appl
120	90	5.2	909	2	US-09-982-616-11	Sequence 11, Appl	193	84.5	4.8	494	2	US-09-198-956-2	Sequence 2, Appli
121	90	5.2	2200	2	US-09-796-575-2	Sequence 2, Appli	194	84.5	4.8	494	2	US-09-670-141-2	Sequence 2, Appli
122	89.5	5.1	496	2	US-08-740-223A-16	Sequence 16, Appl	195	84.5	4.8	623	2	US-09-303-518D-670	Sequence 670, Appl
123	89.5	5.1	496	2	US-09-709-188-16	Sequence 16, Appl	196	84.5	4.8	725	2	US-09-303-518D-672	Sequence 672, App
124	89.5	5.1	496	2	US-10-225-060-16	Sequence 16, Appl	197	84.5	4.8	3012	2	US-08-811-566-2	Sequence 2, Appli
125	89.5	5.1	1810	2	US-08-793-273C-4	Sequence 4, Appli	198	84.5	4.8	3012	2	US-09-034-756-2	Sequence 2, Appli
126	89.5	5.1	1810	4	PCT-US95-11684-4	Sequence 4, Appli	199	84	4.8	399	2	US-09-910-505B-17	Sequence 17, Appl
127	89.5	5.1	2556	1	US-08-185-432-17	Sequence 17, Appl	200	84	4.8	399	2	US-10-403-192-17	Sequence 17, Appl
128	89.5	5.1	2556	2	US-08-899-232-2	Sequence 2, Appli	201	83	4.8	501	2	US-09-645-337A-2	Sequence 2, Appli
129	89.5	5.1	2556	2	US-09-121-457-2	Sequence 2, Appli	202	83	4.8	501	2	US-09-720-529A-8	Sequence 8, Appli
130	89	5.1	470	1	US-08-933-821-6	Sequence 6, Appli	203	83	4.8	2324	1	US-08-283-857-1	Sequence 1, Appli
131	89	5.1	470	2	US-08-960-507-6	Sequence 6, Appli	204	83	4.8	2324	4	PCT-US95-09819-1	Sequence 1, Appli
132	89	5.1	470	2	US-09-136-828-6	Sequence 6, Appli	205	83	4.8	2324	2	US-10-360-101-235	Sequence 235, App
133	89	5.1	470	2	US-09-332-928A-6	Sequence 6, Appli	206	83	4.8	2386	1	US-09-016-366A-12	Sequence 12, Appl
134	89	5.1	470	2	US-09-136-801-6	Sequence 6, Appli	207	83	4.8	2386	2	US-09-961-403-1	Sequence 1, Appli
135	89	5.1	470	2	US-09-332-929-6	Sequence 6, Appli	208	83	4.8	2446	1	US-08-551-356-2	Sequence 2, Appli
136	89	5.1	470	2	US-09-333-075-6	Sequence 6, Appli	209	83	4.8	2446	4	PCT-US93-12687-2	Sequence 2, Appli
137	89	5.1	470	2	US-09-202-088A-6	Sequence 6, Appli	210	82.5	4.7	252	2	US-08-812-586-48	Sequence 48, Appl
138	89	5.1	470	2	US-09-333-077-6	Sequence 6, Appli	211	82.5	4.7	252	2	US-09-535-832A-45	Sequence 45, Appl
139	88	5.0	337	1	US-08-861-464-12	Sequence 12, Appl	212	82.5	4.7	312	1	US-08-525-505A-4	Sequence 4, Appli
140	88	5.0	337	1	US-08-396-001-12	Sequence 12, Appl	213	82.5	4.7	312	2	US-09-976-594-1009	Sequence 1009, Ap
141	88	5.0	337	2	US-09-323-433A-12	Sequence 12, Appl	214	82.5	4.7	312	2	US-09-949-002-367	Sequence 367, App
142	88	5.0	337	2	US-09-826-752-12	Sequence 12, Appl	215	82.5	4.7	368	2	US-09-596-196-9	Sequence 9, Appli
143	88	5.0	338	2	US-09-949-016-7050	Sequence 7050, Ap	216	82.5	4.7	388	2	US-09-596-196-4	Sequence 4, Appli
144	88	5.0	964	2	US-08-860-339-18	Sequence 18, Appl	217	82.5	4.7	459	2	US-08-836-567-4	Sequence 4, Appli
145	88	5.0	964	2	US-09-403-618A-6	Sequence 6, Appli	218	82.5	4.7	459	2	US-09-606-304-4	Sequence 4, Appli
146	88	5.0	964	2	US-09-573-629-18	Sequence 18, Appl	219	82.5	4.7	631	2	US-08-814-052-8	Sequence 8, Appli
147	88	5.0	964	2	US-10-208-349-18	Sequence 18, Appl	220	82.5	4.7	631	2	US-08-812-829-8	Sequence 8, Appli
148	87.5	5.0	498	2	US-08-740-223A-20	Sequence 20, Appl	221	82.5	4.7	1185	2	US-09-964-956-7	Sequence 7, Appli
149	87.5	5.0	498	2	US-09-709-188-20	Sequence 20, Appl	222	82.5	4.7	3011	2	US-09-014-416-1	Sequence 1, Appli
150	87.5	5.0	498	2	US-10-215-224-10	Sequence 10, Appl	223	82.5	4.7	3011	2	US-09-952-572-9	Sequence 9, Appli
151	87.5	5.0	498	2	US-10-225-060-20	Sequence 20, Appl	224	82.5	4.7	3011	2	US-10-259-275-20	Sequence 20, Appl
152	87.5	5.0	503	2	US-08-740-223A-18	Sequence 18, Appl	225	82	4.7	793	2	US-09-463-238-5	Sequence 5, Appli
153	87.5	5.0	503	2	US-09-202-491-4	Sequence 4, Appli	226	82	4.7	2327	6	5455158-1	Patent No. 5455158
154	87.5	5.0	503	2	US-09-202-491-10	Sequence 10, Appl	227	82	4.7	3011	2	US-10-104-966-1	Sequence 1, Appli
155	87.5	5.0	503	2	US-09-709-188-18	Sequence 18, Appl	228	82	4.7	3011	2	US-09-929-955-1	Sequence 1, Appli
156	87.5	5.0	503	2	US-10-225-060-18	Sequence 18, Appl	229	81.5	4.7	256	1	US-09-008-960-3	Sequence 3, Appli
157	87.5	5.0	503	2	US-10-215-224-4	Sequence 4, Appli	230	81.5	4.7	256	2	US-09-368-240-3	Sequence 3, Appli
158	87.5	5.0	503	2	US-10-215-224-10	Sequence 10, Appl	231	81.5	4.7	256	2	US-09-468-702-3	Sequence 3, Appli
159	87.5	5.0	503	2	US-10-214-812-4	Sequence 4, Appli	232	81.5	4.7	257	2	US-09-949-002-491	Sequence 491, App
160	87.5	5.0	3011	1	US-10-214-812-10	Sequence 2, Appli	233	81.5	4.7	279	1	US-09-008-960-1	Sequence 1, Appli
161	87.5	5.0	3011	1	US-08-453-552-2	Sequence 2, Appli	234	81.5	4.7	279	2	US-09-368-240-1	Sequence 1, Appli
162	87.5	5.0	3011	4	US-08-710-637-2	Sequence 2, Appli	235	81.5	4.7	279	2	US-09-468-702-1	Sequence 1, Appli
163	87	5.0	493	1	US-08-933-821-2	Sequence 2, Appli	236	81.5	4.7	282	2	US-10-000-489-28	Sequence 28, Appl
164	87	5.0	493	2	US-08-960-507-2	Sequence 2, Appli	237	81.5	4.7	441	2	US-09-134-000C-6563	Sequence 6563, Ap
165	87	5.0	493	2	US-08-960-507-2	Sequence 2, Appli	238	81.5	4.7	480	2	US-09-182-859-4	Sequence 4, Appli
166	87	5.0	493	2	US-09-136-828-2	Sequence 2, Appli	239	81.5	4.7	480	2	US-09-170-670-5	Sequence 5, Appli
167	87	5.0	493	2	US-09-332-928A-2	Sequence 2, Appli	240	81.5	4.7	480	2	US-09-193-068-5	Sequence 5, Appli
168	87	5.0	493	2	US-09-136-801-2	Sequence 2, Appli	241	81.5	4.7	480	2	US-09-183-412-5	Sequence 5, Appli
169	87	5.0	493	2	US-09-332-929-2	Sequence 2, Appli	242	81.5	4.7	480	2	US-09-290-734-5	Sequence 5, Appli
170	87	5.0	493	2	US-09-333-075-2	Sequence 2, Appli	243	81.5	4.7	480	2	US-09-672-459-4	Sequence 4, Appli
171	87	5.0	493	2	US-09-202-088A-2	Sequence 2, Appli	244	81.5	4.7	480	2	US-09-545-586-5	Sequence 5, Appli
172	87	5.0	493	2	US-09-333-077-2	Sequence 2, Appli	245	81.5	4.7	480	2	US-10-186-042-4	Sequence 4, Appli
173	86.5	5.0	496	2	US-10-018-386-2	Sequence 2, Appli	246	81.5	4.7	480	2	US-09-769-864-5	Sequence 5, Appli
174	86.5	5.0	496	2	US-08-740-223A-15	Sequence 15, Appl	247	81.5	4.7	480	2	US-09-441-313-5	Sequence 5, Appli
175	86.5	5.0	496	2	US-09-709-188-15	Sequence 15, Appl	248	81.5	4.7	483	1	US-08-600-908A-13	Sequence 13, Appl
176	86.5	5.0	496	2	US-10-225-060-15	Sequence 15, Appl	249	81.5	4.7	483	2	US-08-683-838A-13	Sequence 13, Appl
177	86.5	5.0	641	2	US-08-836-567-10	Sequence 10, Appl	250	81.5	4.7	483	2	US-09-291-023A-16	Sequence 16, Appl
178	86.5	5.0	641	2	US-09-606-304-10	Sequence 10, Appl	251	81.5	4.7	483	2	US-09-537-168-6	Sequence 6, Appli
179	86.5	5.0	2556	1	US-08-083-590A-20	Sequence 20, Appl	252	81.5	4.7	483	2	US-09-636-252A-13	Sequence 13, Appl
180	86.5	5.0	2556	2	US-08-332-384-20	Sequence 20, Appl	253	81.5	4.7	483	2	US-09-381-687-6	Sequence 6, Appli
181	85.5	4.9	804	2	US-08-981-446B-3	Sequence 3, Appli	254	81.5	4.7	483	2	US-09-540-715A-16	Sequence 16, Appl
182	85.5	4.9	831	2	US-10-360-101-236	Sequence 236, App	255	81.5	4.7	514	1	US-08-720-899-4	Sequence 4, Appli

256	81.5	4.7	514	1	US-08-459-610-4	Sequence 4, Appli	329	79.5	4.6	3011	4	PCT-US95-01087-1	Sequence 1, Appli
257	81.5	4.7	514	1	US-08-343-804-4	Sequence 4, Appli	330	79	4.5	236	2	US-08-886-269-4	Sequence 4, Appli
258	81.5	4.7	514	1	US-08-687-399-4	Sequence 4, Appli	331	79	4.5	236	2	US-09-167-647-5	Sequence 5, Appli
259	81.5	4.7	514	1	US-08-600-908A-4	Sequence 4, Appli	332	79	4.5	415	2	US-09-949-016-9611	Sequence 9611, Ap
260	81.5	4.7	514	2	US-08-683-838A-4	Sequence 4, Appli	333	79	4.5	625	2	US-08-996-139-15	Sequence 15, Appl
261	81.5	4.7	514	2	US-09-264-097-4	Sequence 4, Appli	334	79	4.5	625	2	US-08-995-659-15	Sequence 15, Appl
262	81.5	4.7	514	2	US-09-636-252A-4	Sequence 4, Appli	335	79	4.5	625	2	US-09-215-649A-15	Sequence 15, Appl
263	81.5	4.7	520	1	US-08-468-700-36	Sequence 36, Appl	336	79	4.5	625	2	US-09-577-780-15	Sequence 15, Appl
264	81.5	4.7	520	1	US-08-645-971-4	Sequence 4, Appli	337	79	4.5	625	2	US-09-577-800-15	Sequence 15, Appl
265	81.5	4.7	520	1	US-08-468-220-34	Sequence 34, Appl	338	79	4.5	625	2	US-09-466-496-15	Sequence 15, Appl
266	81.5	4.7	520	1	US-08-468-698-34	Sequence 34, Appl	339	79	4.5	625	2	US-09-871-856-15	Sequence 15, Appl
267	81.5	4.7	520	1	US-08-704-706A-36	Sequence 36, Appl	340	79	4.5	625	2	US-09-877-650-15	Sequence 15, Appl
268	81.5	4.7	520	2	US-08-890-383-5	Sequence 5, Appli	341	79	4.5	625	2	US-09-865-363-15	Sequence 15, Appl
269	81.5	4.7	520	2	US-08-914-679A-5	Sequence 37, Appl	342	79	4.5	625	2	US-09-688-459-15	Sequence 15, Appl
270	81.5	4.7	520	2	US-08-985-659-37	Sequence 34, Appl	343	79	4.5	625	2	US-09-957-944-4	Sequence 4, Appli
271	81.5	4.7	520	2	PCT-US94-01553A-34	Sequence 34, Appl	344	79	4.5	838	2	US-09-463-238-14	Sequence 14, Appl
272	81.5	4.7	520	4	PCT-US95-10426-34	Sequence 34, Appl	345	79	4.5	919	1	US-08-788-674-4	Sequence 4, Appli
273	81.5	4.7	520	4	PCT-US95-10426-34	Sequence 34, Appl	346	79	4.5	919	1	US-09-397-885-3	Sequence 3, Appli
274	81.5	4.7	600	2	US-09-134-001C-5293	Sequence 5293, Ap	347	79	4.5	1277	2	US-09-969-362-3	Sequence 3, Appli
275	81.5	4.7	719	2	US-09-987-614A-15	Sequence 15, Appl	348	79	4.5	1277	2	US-08-188-281B-21	Sequence 21, Appl
276	81.5	4.7	719	2	US-08-971-7	Sequence 7, Appli	349	78.5	4.5	441	1	PCT-US94-07280-21	Sequence 21, Appl
277	81.5	4.7	762	2	US-10-238-091-7	Sequence 7, Appli	350	78.5	4.5	441	4	PCT-US95-01087-21	Sequence 21, Appl
278	81.5	4.7	762	2	US-09-674-817D-7	Sequence 1, Appli	351	78.5	4.5	441	4	US-08-360-673-4	Sequence 4, Appli
279	81	4.6	251	2	US-09-373-157-1	Sequence 4, Appli	352	78.5	4.5	491	1	US-09-965-175-2	Sequence 2, Appli
280	81	4.6	432	2	US-09-442-143A-4	Sequence 4, Appli	353	78.5	4.5	491	5	US-09-640-305-4	Sequence 4, Appli
281	81	4.6	432	2	US-09-902-563-4	Sequence 1, Appli	354	78.5	4.5	491	2	US-08-941-445A-11	Sequence 11, Appl
282	81	4.6	666	2	US-09-341-587-1	Sequence 3, Appli	355	78.5	4.5	698	2	US-10-238-091-3	Sequence 3, Appli
283	81	4.6	1785	2	US-09-341-587-3	Sequence 20404, A	356	78.5	4.5	764	2	US-09-674-817D-3	Sequence 3, Appli
284	80.5	4.6	159	2	US-09-248-796A-20404	Sequence 10668, A	357	78.5	4.5	764	2	US-09-252-991A-27011	Sequence 27011, A
285	80.5	4.6	713	2	US-09-489-039A-10668	Sequence 357, App	358	78.5	4.5	944	1	US-09-074-658-23	Sequence 23, Appl
286	80.5	4.6	867	2	US-09-711-164-357	Sequence 2, Appli	359	78.5	4.5	944	2	US-09-008-172-2	Sequence 2, Appli
287	80.5	4.6	883	2	US-09-489-039A-13542	Patent No. 5256642	360	78.5	4.5	1430	2	US-09-210-361-6	Sequence 6, Appli
288	80.5	4.6	994	2	US-08-542-635-2	Patent No. 5472939	361	78.5	4.5	1430	2	US-09-740-274-6	Sequence 6, Appli
289	80.5	4.6	1466	6	5256642-6	Patent No. 5256642	362	78.5	4.5	1430	2	US-09-578-063-78	Sequence 78, Appl
290	80.5	4.6	1466	6	5472939-6	Patent No. 5472939	363	78.5	4.5	1436	2	US-08-709-912-11	Sequence 11, Appl
291	80.5	4.6	1537	6	5256642-5	Patent No. 5256642	364	78.5	4.5	191	1	US-09-047-370-11	Sequence 2, Appli
292	80.5	4.6	1537	6	5472939-5	Patent No. 5472939	365	78	4.5	191	1	US-07-744-570B-2	Sequence 17, Appl
293	80.5	4.6	1847	6	5256642-10	Patent No. 5256642	366	78	4.5	200	1	US-09-252-991A-26274	Sequence 26274, A
294	80.5	4.6	1847	6	5472939-10	Patent No. 5472939	367	78	4.5	340	2	US-09-733-643B-17	Sequence 17, Appl
295	80.5	4.6	1947	2	US-09-612-314A-52	Sequence 52, Appl	368	78	4.5	340	2	US-09-291-023A-20	Sequence 20, Appl
296	80.5	4.6	1998	2	US-08-126-505A-13	Sequence 13, Appl	369	78	4.5	762	2	US-08-188-281B-19	Sequence 19, Appl
297	80.5	4.6	2039	6	5256642-2	Patent No. 5256642	370	78	4.5	820	2	PCT-US94-07280-19	Sequence 19, Appl
298	80.5	4.6	2039	6	5472939-2	Patent No. 5472939	371	77.5	4.4	405	2	PCT-US95-01087-19	Sequence 19, Appl
299	80	4.6	14	2	US-09-227-357-326	Sequence 326, App	372	77.5	4.4	405	2	US-09-182-859-2	Sequence 2, Appli
300	80	4.6	14	2	US-09-973-278-321	Sequence 281, App	373	77.5	4.4	417	1	US-09-170-670-4	Sequence 4, Appli
301	80	4.6	395	2	US-09-603-208A-28	Sequence 28, Appl	374	77.5	4.4	417	4	US-09-193-068-4	Sequence 4, Appli
302	80	4.6	439	2	US-09-442-143A-2	Sequence 2, Appli	375	77.5	4.4	417	4	US-09-183-412-4	Sequence 4, Appli
303	80	4.6	439	2	US-09-902-563-2	Sequence 2, Appli	376	77.5	4.4	483	2	US-09-264-097-2	Sequence 2, Appli
304	79.5	4.6	372	2	US-07-791-931-4	Sequence 4, Appli	377	77.5	4.4	483	2	US-09-291-023A-21	Sequence 21, Appl
305	79.5	4.6	372	2	US-10-300-819B-20	Sequence 20, Appl	378	77.5	4.4	483	2	US-09-540-715A-21	Sequence 21, Appl
306	79.5	4.6	383	2	US-09-949-016-10060	Sequence 10060, A	379	77.5	4.4	483	2	US-09-537-168-4	Sequence 4, Appli
307	79.5	4.6	490	1	US-08-188-281B-15	Sequence 15, Appl	380	77.5	4.4	483	2	US-09-672-459-2	Sequence 2, Appli
308	79.5	4.6	490	4	PCT-US94-07280-15	Sequence 15, Appl	381	77.5	4.4	483	2	US-09-545-586-4	Sequence 4, Appli
309	79.5	4.6	490	4	PCT-US95-01087-15	Sequence 15, Appl	382	77.5	4.4	483	2	US-10-186-042-2	Sequence 2, Appli
310	79.5	4.6	749	2	US-09-562-737-96	Sequence 96, Appl	383	77.5	4.4	483	2	US-09-769-864-4	Sequence 4, Appli
311	79.5	4.6	750	2	US-09-185-160-14	Sequence 14, Appl	384	77.5	4.4	483	2	US-09-441-313-4	Sequence 4, Appli
312	79.5	4.6	750	2	US-09-508-824-12	Sequence 12, Appl	385	77.5	4.4	483	2	US-08-933-821-4	Sequence 4, Appli
313	79.5	4.6	967	1	US-08-188-281B-13	Sequence 13, Appl	386	77.5	4.4	483	2	US-09-960-507-4	Sequence 4, Appli
314	79.5	4.6	967	4	PCT-US94-07280-13	Sequence 13, Appl	387	77.5	4.4	483	2	US-09-136-828-4	Sequence 4, Appli
315	79.5	4.6	967	4	PCT-US95-01087-13	Sequence 13, Appl	388	77.5	4.4	483	2	US-09-332-928A-4	Sequence 4, Appli
316	79.5	4.6	970	1	US-08-449-645A-11	Sequence 11, Appl	389	77.5	4.4	491	1	US-09-136-801-4	Sequence 4, Appli
317	79.5	4.6	970	1	US-08-702-367A-11	Sequence 11, Appl	390	77.5	4.4	491	2	US-09-332-929-4	Sequence 2, Appli
318	79.5	4.6	970	4	PCT-US95-04681-11	Sequence 5, Appli	391	77.5	4.4	491	2	US-09-658-644-2	Sequence 4, Appli
319	79.5	4.6	986	2	US-09-403-618A-5	Sequence 12, Appl	392	77.5	4.4	491	2	US-09-202-088A-4	Sequence 4, Appli
320	79.5	4.6	1648	1	US-08-188-281B-12	Sequence 12, Appl	393	77.5	4.4	491	2	US-09-333-075-4	Sequence 4, Appli
321	79.5	4.6	1648	4	PCT-US94-07280-12	Sequence 12, Appl	394	77.5	4.4	491	2	US-09-332-929-4	Sequence 2, Appli
322	79.5	4.6	1648	4	PCT-US95-01087-12	Sequence 12, Appl	395	77.5	4.4	491	2	US-09-333-075-4	Sequence 4, Appli
323	79.5	4.6	2489	2	US-09-911-842A-5	Sequence 5, Appli	396	77.5	4.4	491	2	US-09-333-075-4	Sequence 4, Appli
324	79.5	4.6	3011	1	US-08-188-281B-1	Sequence 1, Appli	397	77.5	4.4	491	2	US-09-333-077-4	Sequence 4, Appli
325	79.5	4.6	3011	1	US-08-453-552-1	Sequence 1, Appli	398	77.5	4.4	491	2	US-09-949-016-7569	Sequence 7569, Ap
326	79.5	4.6	3011	1	US-08-710-637-1	Sequence 1, Appli	399	77.5	4.4	491	2	US-08-720-899-2	Sequence 2, Appli
327	79.5	4.6	3011	4	PCT-US93-00907-1	Sequence 1, Appli	400	77.5	4.4	512	1		
328	79.5	4.6	3011	4	PCT-US94-07280-1	Sequence 1, Appli	401	77.5	4.4				

402	77.5	4.4	512	1	US-08-459-610-2	Sequence 2, Appli	475	76	4.4	660	2	US-08-483-577A-10	Sequence 10, Appl
403	77.5	4.4	512	1	US-08-343-804-2	Sequence 2, Appli	476	76	4.4	660	2	US-08-897-438-8	Sequence 8, Appli
404	77.5	4.4	512	1	US-08-687-399-2	Sequence 2, Appli	477	76	4.4	660	2	US-08-897-438-10	Sequence 10, Appl
405	77.5	4.4	512	1	US-08-600-908A-2	Sequence 2, Appli	478	76	4.4	660	2	US-08-637-654-8	Sequence 8, Appli
406	77.5	4.4	512	2	US-08-683-838A-2	Sequence 2, Appli	479	76	4.4	660	2	US-08-637-654-10	Sequence 10, Appl
407	77.5	4.4	512	2	US-09-636-252A-2	Sequence 2, Appli	480	76	4.4	660	2	US-08-649-518-8	Sequence 8, Appli
408	77.5	4.4	642	2	US-10-152-886-9	Sequence 9, Appli	481	76	4.4	660	2	US-08-649-518-10	Sequence 10, Appl
409	77.5	4.4	3011	2	US-08-811-566-20	Sequence 20, Appl	482	76	4.4	719	2	US-09-386-607-2	Sequence 2, Appli
410	77.5	4.4	3011	2	US-09-034-756-20	Sequence 20, Appl	483	76	4.4	719	2	US-09-645-707B-2	Sequence 2, Appli
411	77	4.4	191	1	US-08-044-621D-35	Sequence 35, Appl	484	76	4.4	719	2	US-09-607-142A-2	Sequence 2, Appli
412	77	4.4	216	1	US-08-315-695-20	Sequence 20, Appl	485	76	4.4	719	2	US-09-831-656-2	Sequence 2, Appli
413	77	4.4	240	2	US-09-570-856B-16	Sequence 16, Appl	486	76	4.4	766	2	US-09-328-352-8230	Sequence 8230, Ap
414	77	4.4	341	2	US-09-412-600B-2	Sequence 2, Appli	487	76	4.4	890	1	US-08-483-101-14	Sequence 14, Appl
415	77	4.4	377	1	US-08-169-948B-14	Sequence 14, Appl	488	76	4.4	1469	2	US-09-262-537-58	Sequence 58, Appl
416	77	4.4	377	1	US-08-448-873-14	Sequence 14, Appl	489	76	4.4	1882	2	US-09-369-364A-13	Sequence 13, Appl
417	77	4.4	377	2	US-08-382-452D-14	Sequence 14, Appl	490	76	4.4	3830	2	US-09-693-205A-4	Sequence 4, Appli
418	77	4.4	377	2	US-08-507-362A-6	Sequence 6, Appli	491	75.5	4.3	242	2	US-08-944-483-29	Sequence 29, Appl
419	77	4.4	377	2	US-09-916-494A-14	Sequence 14, Appl	492	75.5	4.3	310	2	US-07-791-931-6	Sequence 6, Appli
420	77	4.4	436	2	US-08-709-974A-2	Sequence 2, Appli	493	75.5	4.3	397	2	US-10-104-047-3904	Sequence 3904, Ap
421	77	4.4	449	2	US-09-949-016-9614	Sequence 9614, Ap	494	75.5	4.3	401	2	US-09-949-016-7956	Sequence 7956, Ap
422	77	4.4	449	2	US-09-949-016-9615	Sequence 9615, Ap	495	75.5	4.3	406	2	US-08-934-494-2	Sequence 2, Appli
423	77	4.4	453	1	US-08-206-176-6	Sequence 6, Appli	496	75.5	4.3	406	2	US-09-143-068-2	Sequence 2, Appli
424	77	4.4	459	1	US-08-380-438-2	Sequence 2, Appli	497	75.5	4.3	406	2	US-09-143-707-2	Sequence 2, Appli
425	77	4.4	459	1	US-08-676-168A-6	Sequence 6, Appli	498	75.5	4.3	406	2	US-09-202-089-2	Sequence 2, Appli
426	77	4.4	465	2	US-09-949-016-8583	Sequence 8583, Ap	499	75.5	4.3	406	2	US-09-511-133-2	Sequence 2, Appli
427	77	4.4	465	2	US-09-949-016-8584	Sequence 8584, Ap	500	75.5	4.3	406	2	US-09-690-169-2	Sequence 2, Appli
428	77	4.4	602	2	US-09-489-039A-12436	Sequence 12436, A	501	75.5	4.3	406	2	US-09-461-325-206	Sequence 206, App
429	77	4.4	741	2	US-09-328-352-5898	Sequence 5898, Ap	502	75.5	4.3	406	2	US-09-690-189-2	Sequence 206, App
430	77	4.4	1358	2	US-09-538-092-339	Sequence 339, App	503	75.5	4.3	457	2	US-10-012-542-206	Sequence 206, App
431	77	4.4	1506	2	US-09-902-540-10944	Sequence 10944, A	504	75.5	4.3	457	2	US-10-115-123-206	Sequence 7904, Ap
432	76.5	4.4	403	1	US-08-483-695-5	Sequence 5, Appli	505	75.5	4.3	481	2	US-09-130-491-8	Sequence 8, Appli
433	76.5	4.4	403	1	US-07-965-285-5	Sequence 5, Appli	506	75.5	4.3	536	2	US-09-538-092-992	Sequence 992, App
434	76.5	4.4	403	1	US-08-487-231-5	Sequence 5, Appli	507	75.5	4.3	652	2	US-09-489-039A-12461	Sequence 12461, A
435	76.5	4.4	403	2	US-09-201-912-5	Sequence 5, Appli	508	75.5	4.3	705	2	US-09-949-002-326	Sequence 326, App
436	76.5	4.4	560	2	US-08-814-052-6	Sequence 6, Appli	509	75.5	4.3	1026	1	US-08-542-003-6	Sequence 6, Appli
437	76.5	4.4	560	2	US-08-812-829-6	Sequence 6, Appli	510	75.5	4.3	1026	1	US-08-322-760A-6	Sequence 6, Appli
438	76.5	4.4	637	2	US-09-107-433-4391	Sequence 4391, Ap	511	75.5	4.3	1026	2	US-09-236-949-6	Sequence 6, Appli
439	76.5	4.4	750	2	US-08-814-052-2	Sequence 2, Appli	512	75.5	4.3	1858	2	US-09-902-540-12643	Sequence 12643, A
440	76.5	4.4	750	2	US-08-812-829-2	Sequence 2, Appli	513	75.5	4.3	3421	2	US-09-452-638-53	Sequence 53, Appl
441	76.5	4.4	905	2	US-09-369-364A-9	Sequence 9, Appli	514	75.5	4.3	3421	2	US-09-121-587A-13	Sequence 13, Appl
442	76.5	4.4	1456	2	US-09-976-594-168	Sequence 168, App	515	75.5	4.3	119	2	US-09-025-769B-21	Sequence 21, Appl
443	76.5	4.4	1739	2	US-09-795-061-2	Sequence 2, Appli	516	75.5	4.3	119	2	US-09-490-070A-21	Sequence 21, Appl
444	76	4.4	236	2	US-08-886-269-1	Sequence 1, Appli	517	75	4.3	119	2	US-09-490-153-21	Sequence 21, Appl
445	76	4.4	236	2	US-08-886-269-2	Sequence 2, Appli	518	75	4.3	269	1	US-07-857-224B-69	Sequence 69, Appl
446	76	4.4	236	2	US-09-167-647-1	Sequence 1, Appli	519	75	4.3	389	2	US-09-311-626B-18	Sequence 18, Appl
447	76	4.4	236	2	US-09-167-647-2	Sequence 2, Appli	520	75	4.3	473	2	US-09-720-529A-4	Sequence 4, Appli
448	76	4.4	236	2	US-09-373-157-2	Sequence 2, Appli	521	75	4.3	473	2	US-08-861-464-14	Sequence 14, Appl
449	76	4.4	305	2	US-08-478-073-2	Sequence 2, Appli	522	75	4.3	475	1	US-08-396-001-14	Sequence 14, Appl
450	76	4.4	377	1	US-08-525-697-2	Sequence 9, Appli	523	75	4.3	475	2	US-09-323-433A-14	Sequence 14, Appl
451	76	4.4	433	2	US-08-624-735E-9	Sequence 13, Appl	524	75	4.3	475	2	US-09-826-752-14	Sequence 14, Appl
452	76	4.4	444	2	US-09-645-337A-13	Sequence 17767, A	525	75	4.3	574	2	US-09-949-016-8960	Sequence 8960, Ap
453	76	4.4	444	2	US-09-252-991A-17767	Sequence 2, Appli	526	75	4.3	586	2	US-09-949-016-6631	Sequence 6631, Ap
454	76	4.4	489	2	US-09-986-536-2	Sequence 2, Appli	527	75	4.3	607	2	US-09-344-882-18	Sequence 18, Appl
455	76	4.4	490	2	US-09-339-159B-2	Sequence 2, Appli	528	75	4.3	607	2	US-10-293-865-18	Sequence 18, Appl
456	76	4.4	583	2	US-08-481-190-19	Sequence 19, Appl	529	75	4.3	643	1	US-08-551-356-4	Sequence 4, Appli
457	76	4.4	583	4	PCT-US93-00869-19	Sequence 19, Appl	530	75	4.3	645	2	PCT-US93-12687-4	Sequence 4, Appli
458	76	4.4	632	2	US-09-569-037-3	Sequence 3, Appli	531	75	4.3	645	2	US-09-315-127-8	Sequence 8, Appli
459	76	4.4	647	2	US-08-483-577A-148	Sequence 148, App	532	75	4.3	788	2	US-09-315-127-9	Sequence 9, Appli
460	76	4.4	647	2	US-08-897-438-148	Sequence 148, App	533	75	4.3	1044	2	US-09-489-039A-12831	Sequence 12831, A
461	76	4.4	647	2	US-08-649-518-148	Sequence 148, App	534	75	4.3	1336	1	US-08-551-356-6	Sequence 6, Appli
462	76	4.4	654	2	US-09-315-127-11	Sequence 11, Appl	535	75	4.3	1336	4	PCT-US93-12687-6	Sequence 6, Appli
463	76	4.4	654	2	US-09-315-127-12	Sequence 12, Appl	536	75	4.3	189	1	US-08-709-912-12	Sequence 12, Appl
464	76	4.4	660	1	US-08-487-890A-8	Sequence 8, Appli	537	75	4.3	189	1	US-09-047-370-12	Sequence 12, Appl
465	76	4.4	660	1	US-08-487-890A-10	Sequence 10, Appl	538	75	4.3	261	2	US-09-110-959A-2	Sequence 2, Appli
466	76	4.4	660	1	US-08-478-435-8	Sequence 10, Appl	539	75	4.3	415	1	US-08-073-531B-1	Sequence 1, Appli
467	76	4.4	660	1	US-08-478-435-10	Sequence 8, Appli	540	74.5	4.3	415	1	US-08-295-411-2	Sequence 2, Appli
468	76	4.4	660	1	US-08-337-483-8	Sequence 10, Appl	541	74.5	4.3	415	1	US-08-955-471-2	Sequence 1, Appli
469	76	4.4	660	1	US-08-337-483-10	Sequence 10, Appl	542	74.5	4.3	415	1	US-08-766-288-1	Sequence 2, Appli
470	76	4.4	660	1	US-08-478-373-8	Sequence 10, Appl	543	74.5	4.3	415	4	PCT-US92-10242-2	Sequence 2, Appli
471	76	4.4	660	1	US-08-478-373-10	Sequence 10, Appl	544	74.5	4.3				
472	76	4.4	660	2	US-08-474-671-8	Sequence 8, Appli	545	74.5	4.3				
473	76	4.4	660	2	US-08-474-671-10	Sequence 10, Appl	546	74.5	4.3				
474	76	4.4	660	2	US-08-483-577A-8	Sequence 8, Appli	547	74.5	4.3				

548	74.5	4.3	483	1	US-08-468-700-34	Sequence 34, Appl	621	73.5	4.2	834	2	US-10-188-495-65	Sequence 65, Appl
549	74.5	4.3	483	1	US-08-468-220-32	Sequence 32, Appl	622	73.5	4.2	884	1	US-08-066-167-2	Sequence 2, Appli
550	74.5	4.3	483	1	US-08-468-220-36	Sequence 36, Appl	623	73.5	4.2	908	1	US-08-487-890A-94	Sequence 94, Appl
551	74.5	4.3	483	1	US-08-468-698-32	Sequence 32, Appl	624	73.5	4.2	908	1	US-08-478-435-94	Sequence 94, Appl
552	74.5	4.3	483	1	US-08-468-698-36	Sequence 36, Appl	625	73.5	4.2	908	1	US-08-337-483-94	Sequence 94, Appl
553	74.5	4.3	483	1	US-08-704-706A-34	Sequence 34, Appl	626	73.5	4.2	908	1	US-08-478-373-94	Sequence 94, Appl
554	74.5	4.3	483	2	US-08-890-383-3	Sequence 3, Appli	627	73.5	4.2	908	2	US-08-474-671-94	Sequence 94, Appl
555	74.5	4.3	483	2	US-08-914-679A-3	Sequence 3, Appli	628	73.5	4.2	908	2	US-08-483-577A-94	Sequence 94, Appl
556	74.5	4.3	483	2	US-08-985-659-35	Sequence 35, Appl	629	73.5	4.2	908	2	US-08-448-194-4	Sequence 4, Appli
557	74.5	4.3	483	2	US-08-194-664A-32	Sequence 32, Appl	630	73.5	4.2	908	2	US-08-613-009A-16	Sequence 16, Appl
558	74.5	4.3	483	2	US-08-194-664A-36	Sequence 36, Appl	631	73.5	4.2	908	2	US-08-897-438-94	Sequence 94, Appl
559	74.5	4.3	483	2	US-10-199-922A-3	Sequence 3, Appli	632	73.5	4.2	908	2	US-08-867-921-4	Sequence 4, Appli
560	74.5	4.3	483	4	PCT-US94-01553A-32	Sequence 32, Appl	633	73.5	4.2	908	2	US-08-637-654-94	Sequence 94, Appl
561	74.5	4.3	483	4	PCT-US94-01553A-36	Sequence 36, Appl	634	73.5	4.2	908	2	US-08-649-518-94	Sequence 94, Appl
562	74.5	4.3	483	4	PCT-US95-10426-32	Sequence 32, Appl	635	73.5	4.2	908	2	US-08-778-570B-22	Sequence 22, Appl
563	74.5	4.3	483	4	PCT-US95-10426-36	Sequence 36, Appl	636	73.5	4.2	908	2	US-09-059-584-22	Sequence 22, Appl
564	74.5	4.3	485	2	US-09-291-023A-18	Sequence 18, Appl	637	73.5	4.2	908	2	US-08-753-750B-12	Sequence 12, Appl
565	74.5	4.3	485	2	US-09-381-687-1	Sequence 1, Appli	638	73.5	4.2	951	1	US-08-162-809-2	Sequence 2, Appli
566	74.5	4.3	485	2	US-09-540-715A-18	Sequence 18, Appl	639	73.5	4.2	1391	2	US-10-080-505-11	Sequence 11, Appl
567	74.5	4.3	487	1	US-08-468-220-37	Sequence 37, Appl	640	73.5	4.2	1391	2	US-10-080-505-15	Sequence 15, Appl
568	74.5	4.3	487	1	US-08-468-698-37	Sequence 37, Appl	641	73.5	4.2	2955	1	US-08-443-260-3	Sequence 3, Appli
569	74.5	4.3	487	2	US-08-194-664A-37	Sequence 37, Appl	642	73.5	4.2	2955	2	US-08-442-805A-3	Sequence 3, Appli
570	74.5	4.3	487	4	PCT-US94-01553A-37	Sequence 37, Appl	643	73.5	4.2	2955	2	US-08-443-900A-3	Sequence 3, Appli
571	74.5	4.3	487	4	PCT-US95-10426-37	Sequence 37, Appl	644	73.5	4.2	2955	2	US-08-444-818-124	Sequence 124, App
572	74.5	4.3	512	1	US-07-623-953-3	Sequence 3, Appli	645	73.5	4.2	2955	2	US-08-249-843-3	Sequence 3, Appli
573	74.5	4.3	512	1	US-07-623-953-5	Sequence 5, Appli	646	73.5	4.2	3011	1	US-08-833-678A-6	Sequence 6, Appli
574	74.5	4.3	512	2	US-08-985-659-34	Sequence 34, Appl	647	73.5	4.2	3011	2	US-08-444-818-177	Sequence 177, App
575	74.5	4.3	512	2	US-10-199-922A-2	Sequence 2, Appli	648	73.5	4.2	3011	2	US-08-529-169A-6	Sequence 6, Appli
576	74.5	4.3	516	2	US-09-986-676A-2	Sequence 2, Appli	649	73.5	4.2	3011	2	US-09-483-799-6	Sequence 6, Appli
577	74.5	4.3	516	2	US-09-971-611-2	Sequence 2, Appli	650	73.5	4.2	3011	4	PCT-US91-02225-10	Sequence 10, Appl
578	74.5	4.3	600	2	US-08-537-361B-9	Sequence 9, Appli	651	73	4.2	13	2	US-09-227-357-324	Sequence 324, App
579	74.5	4.3	602	2	US-08-990-470A-3	Sequence 3, Appli	652	73	4.2	13	2	US-09-973-278-319	Sequence 319, App
580	74.5	4.3	602	2	US-08-817-707-9	Sequence 9, Appli	653	73	4.2	153	2	US-09-621-976-4040	Sequence 4040, Ap
581	74.5	4.3	699	2	US-09-489-039A-8133	Sequence 8133, Ap	654	73	4.2	165	1	US-08-401-530A-7	Sequence 7, Appli
582	74.5	4.3	984	1	US-08-673-789-6	Sequence 6, Appli	655	73	4.2	165	1	US-08-709-662-7	Sequence 3, Appli
583	74	4.2	297	2	US-09-107-532A-4196	Sequence 4196, Ap	656	73	4.2	236	1	US-08-886-269-3	Sequence 3, Appli
584	74	4.2	341	2	US-09-412-600B-4	Sequence 4, Appli	657	73	4.2	236	2	US-09-167-647-4	Sequence 4, Appli
585	74	4.2	346	2	US-08-960-507-19	Sequence 19, Appl	658	73	4.2	236	2	US-09-325-932A-160	Sequence 160, App
586	74	4.2	346	2	US-09-136-801-19	Sequence 19, Appl	659	73	4.2	348	2	US-09-270-767-41752	Sequence 41752, A
587	74	4.2	346	2	US-09-202-088A-19	Sequence 19, Appl	660	73	4.2	402	2	US-08-961-083-70	Sequence 70, Appl
588	74	4.2	384	2	US-09-543-681A-6344	Sequence 6344, Ap	661	73	4.2	437	2	US-09-536-784-70	Sequence 70, Appl
589	74	4.2	386	2	US-09-605-703B-2514	Sequence 2514, Ap	662	73	4.2	437	2	US-09-765-271-70	Sequence 70, Appl
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591	74	4.2	447	4	PCT-US94-07280-20	Sequence 20, Appl	664	73	4.2	439	2	US-08-434-099A-27	Sequence 27, Appl
592	74	4.2	447	4	PCT-US95-01087-20	Sequence 20, Appl	665	73	4.2	454	2	US-08-434-099A-28	Sequence 28, Appl
593	74	4.2	471	2	US-10-003-392-10	Sequence 10, Appl	666	73	4.2	454	2	US-09-712-363-156	Sequence 156, App
594	74	4.2	485	2	US-09-291-023A-4	Sequence 4, Appli	667	73	4.2	566	1	US-08-415-823-4	Sequence 4, Appli
595	74	4.2	485	2	US-09-291-023A-14	Sequence 14, Appl	668	73	4.2	566	1	US-09-086-662-4	Sequence 4, Appli
596	74	4.2	485	2	US-09-540-715A-4	Sequence 4, Appli	669	73	4.2	591	2	US-09-949-016-11666	Sequence 11666, A
597	74	4.2	485	2	US-09-540-715A-14	Sequence 14, Appl	670	73	4.2	605	2	US-09-769-787-191	Sequence 191, App
598	74	4.2	536	2	US-09-600-099-5	Sequence 5, Appli	671	73	4.2	805	2	US-08-989-299-2	Sequence 2, Appli
599	74	4.2	544	2	US-09-087-134-14	Sequence 14, Appl	672	73	4.2	805	2	US-10-158-847-142	Sequence 142, App
600	74	4.2	596	2	US-08-481-190-8	Sequence 8, Appli	673	73	4.2	805	2	US-09-407-427-2	Sequence 2, Appli
601	74	4.2	596	4	PCT-US93-00869-8	Sequence 8, Appli	674	73	4.2	805	2	US-09-635-501-2	Sequence 2, Appli
602	74	4.2	600	2	US-10-003-392-20	Sequence 20, Appl	675	73	4.2	805	2	US-09-635-501-106	Sequence 106, App
603	74	4.2	616	2	US-09-393-529-2	Sequence 2, Appli	676	73	4.2	805	2	US-10-158-825-142	Sequence 142, App
604	74	4.2	616	2	US-09-396-149-7	Sequence 7, Appli	677	73	4.2	805	2	US-09-949-016-11284	Sequence 11284, A
605	74	4.2	669	2	US-09-595-857B-32	Sequence 32, Appl	678	73	4.2	805	2	US-09-489-039A-11711	Sequence 11711, A
606	74	4.2	881	2	US-09-489-039A-12003	Sequence 12003, A	679	73	4.2	805	2	US-09-489-039A-8561	Sequence 8561, Ap
607	74	4.2	1259	2	US-09-949-016-10366	Sequence 10366, A	680	73	4.2	819	2	US-09-328-352-5501	Sequence 5501, Ap
608	74	4.2	1279	2	US-09-170-496D-293	Sequence 293, App	681	73	4.2	827	2	US-07-704-288C-6	Sequence 6, Appli
609	74	4.2	1279	2	US-09-364-425B-58	Sequence 58, Appl	682	73	4.2	869	2	US-08-379-259-6	Sequence 6, Appli
610	74	4.2	1466	2	US-09-262-537-20	Sequence 20, Appl	683	73	4.2	310	1	US-09-248-796A-20424	Sequence 20424, A
611	74	4.2	1471	2	US-08-811-519-1	Sequence 1, Appli	684	72.5	4.1	310	1	US-08-446-803-2	Sequence 2, Appli
612	74	4.2	2231	1	US-08-153-799-16	Sequence 16, Appl	685	72.5	4.1	450	1	US-08-861-837-2	Sequence 2, Appli
613	73.5	4.2	189	1	US-10-04-966-4	Sequence 33, Appl	686	72.5	4.1	485	1	US-08-600-656-2	Sequence 2, Appli
614	73.5	4.2	350	2	US-09-929-955-4	Sequence 4, Appli	687	72.5	4.1	485	2	US-09-170-670-2	Sequence 2, Appli
615	73.5	4.2	350	2	US-09-929-955-4	Sequence 4, Appli	688	72.5	4.1	485	2	US-09-170-670-8	Sequence 8, Appli
616	73.5	4.2	503	2	US-09-543-681A-4211	Sequence 4211, Ap	689	72.5	4.1	485	2	US-09-193-068-2	Sequence 2, Appli
617	73.5	4.2	525	2	US-09-976-594-64	Sequence 64, Appl	690	72.5	4.1	485	2		
618	73.5	4.2	525	2	US-09-919-039-62	Sequence 62, Appl	691	72.5	4.1	485	2		
619	73.5	4.2	568	2	US-09-911-909B-16	Sequence 16, Appl	692	72.5	4.1	485	2		
620	73.5	4.2	574	2	US-09-134-001C-3141	Sequence 3141, Ap	693	72.5	4.1	485	2		

694	72.5	4.1	485	2	US-09-193-068-8	Sequence 8, Appli	767	71.5	4.1	631	2	US-08-897-438-111	Sequence 111, App
695	72.5	4.1	485	2	US-09-183-412-2	Sequence 2, Appli	768	71.5	4.1	631	2	US-08-637-654-111	Sequence 111, App
696	72.5	4.1	485	2	US-09-183-412-8	Sequence 8, Appli	769	71.5	4.1	631	2	US-08-649-518-111	Sequence 111, App
697	72.5	4.1	485	2	US-09-264-097-5	Sequence 5, Appli	770	71.5	4.1	644	2	US-09-919-039-121	Sequence 121, App
698	72.5	4.1	485	2	US-09-354-191A-2	Sequence 2, Appli	771	71.5	4.1	652	1	US-08-313-185-53	Sequence 53, Appl
699	72.5	4.1	485	2	US-09-290-734-2	Sequence 2, Appli	772	71.5	4.1	652	1	US-08-459-499-17	Sequence 17, Appl
700	72.5	4.1	485	2	US-09-290-734-8	Sequence 8, Appli	773	71.5	4.1	652	2	US-09-082-614A-53	Sequence 53, Appl
701	72.5	4.1	485	2	US-09-381-687-3	Sequence 3, Appli	774	71.5	4.1	772	1	US-08-410-784A-5	Sequence 5, Appli
702	72.5	4.1	485	2	US-09-545-586-2	Sequence 2, Appli	775	71.5	4.1	789	2	US-09-731-166-16	Sequence 16, Appl
703	72.5	4.1	485	2	US-09-545-586-8	Sequence 8, Appli	776	71.5	4.1	890	2	US-09-949-002-394	Sequence 394, App
704	72.5	4.1	485	2	US-09-769-864-2	Sequence 2, Appli	777	71.5	4.1	1229	2	US-09-310-293-2	Sequence 2, Appli
705	72.5	4.1	485	2	US-09-769-864-8	Sequence 8, Appli	778	71.5	4.1	1229	2	US-09-579-376-2	Sequence 2, Appli
706	72.5	4.1	485	2	US-10-025-648-2	Sequence 2, Appli	779	71.5	4.1	1315	2	US-09-200-650E-5	Sequence 5, Appli
707	72.5	4.1	485	2	US-09-441-313-2	Sequence 2, Appli	780	71.5	4.1	1751	2	US-09-136-574A-44	Sequence 44, Appl
708	72.5	4.1	485	2	US-09-441-313-8	Sequence 8, Appli	781	71.5	4.1	2523	1	US-08-185-432-18	Sequence 18, Appl
709	72.5	4.1	549	2	US-09-344-510B-2	Sequence 2, Appli	782	71.5	4.1	2523	2	US-08-899-232-3	Sequence 3, Appli
710	72.5	4.1	818	1	US-08-410-784A-2	Sequence 2, Appli	783	71.5	4.1	2523	2	US-09-121-457-3	Sequence 3, Appli
711	72.5	4.1	818	2	US-09-346-237-11	Sequence 11, Appl	784	71.5	4.1	2772	2	US-08-444-818-89	Sequence 89, Appl
712	72.5	4.1	1012	2	US-09-346-237-11	Sequence 1, Appli	785	71.5	4.1	2995	2	US-08-444-818-138	Sequence 138, App
713	72.5	4.1	3460	2	US-09-334-220-1	Sequence 1, Appli	786	71.5	4.1	3011	1	US-08-440-103-36	Sequence 36, Appl
714	72.5	4.1	3594	2	US-09-911-842A-4	Sequence 4, Appli	787	71.5	4.1	3011	1	US-08-440-542-36	Sequence 36, Appl
715	72	4.1	127	2	US-08-635-109-2	Sequence 2, Appli	788	71.5	4.1	3011	1	US-07-910-760-10	Sequence 10, Appl
716	72	4.1	127	2	US-08-844-215-2	Sequence 2, Appli	789	71.5	4.1	3011	1	US-08-440-519-10	Sequence 10, Appl
717	72	4.1	329	2	US-10-300-819B-17	Sequence 17, Appl	790	71.5	4.1	3011	1	US-08-231-368-36	Sequence 36, Appl
718	72	4.1	402	1	US-08-314-309A-6	Sequence 6, Appli	791	71.5	4.1	3011	1	US-08-440-210-36	Sequence 36, Appl
719	72	4.1	411	1	US-08-232-532-1	Sequence 1, Appli	792	71.5	4.1	3011	2	US-09-388-874-2	Sequence 2, Appli
720	72	4.1	411	1	US-08-748-150-1	Sequence 1, Appli	793	71.5	4.1	3011	2	US-09-388-874-2	Sequence 2, Appli
721	72	4.1	411	2	US-09-347-877-1	Sequence 1, Appli	794	71.5	4.1	3011	2	US-09-046-604-36	Sequence 36, Appl
722	72	4.1	411	2	US-09-912-740A-1	Sequence 1, Appli	795	71.5	4.1	3011	2	US-08-440-549-10	Sequence 10, Appl
723	72	4.1	411	2	US-09-912-741B-1	Sequence 1, Appli	796	71.5	4.1	3011	2	US-08-850-328-1	Sequence 1, Appli
724	72	4.1	411	2	PCT-US95-05168-1	Sequence 1, Appli	797	71.5	4.1	3011	2	US-09-916-359-2	Sequence 2, Appli
725	72	4.1	437	1	US-07-973-324A-6	Sequence 6, Appli	798	71	4.1	122	2	US-09-270-767-58112	Sequence 58112, A
726	72	4.1	437	1	US-08-343-380-6	Sequence 6, Appli	799	71	4.1	141	2	US-08-589-939-5	Sequence 5, Appli
727	72	4.1	437	2	US-09-072-435-6	Sequence 6, Appli	799	71	4.1	141	2	US-09-878-281A-123	Sequence 123, App
728	72	4.1	437	2	US-09-072-917A-6	Sequence 6, Appli	800	71	4.1	191	2	US-08-635-886C-212	Sequence 212, App
729	72	4.1	441	1	US-08-314-309A-4	Sequence 4, Appli	801	71	4.1	193	2	US-08-974-690C-212	Sequence 212, App
730	72	4.1	450	2	US-09-438-185A-21	Sequence 21, Appl	802	71	4.1	193	2	US-09-878-281A-190	Sequence 190, App
731	72	4.1	453	1	US-08-188-281B-16	Sequence 16, Appl	803	71	4.1	193	2	US-09-784-810C-11	Sequence 11, Appl
732	72	4.1	453	4	PCT-US94-07280-16	Sequence 16, Appl	804	71	4.1	337	1	US-08-188-281B-7	Sequence 7, Appli
733	72	4.1	453	4	PCT-US95-01087-16	Sequence 16, Appl	805	71	4.1	337	4	PCT-US94-07280-7	Sequence 7, Appli
734	72	4.1	501	2	US-09-465-519-4	Sequence 4, Appli	806	71	4.1	337	4	PCT-US95-01087-7	Sequence 7, Appli
735	72	4.1	501	2	US-09-971-611-4	Sequence 4, Appli	807	71	4.1	367	1	US-08-188-281B-9	Sequence 9, Appli
736	72	4.1	501	2	US-10-136-272-4	Sequence 4, Appli	808	71	4.1	367	1	US-08-453-552-6	Sequence 6, Appli
737	72	4.1	501	2	US-09-196-390-6	Sequence 6, Appli	809	71	4.1	367	1	US-08-710-637-6	Sequence 6, Appli
738	72	4.1	799	2	US-09-952-677-6	Sequence 6, Appli	810	71	4.1	367	4	PCT-US93-00907-6	Sequence 6, Appli
739	72	4.1	830	2	US-08-872-855-11	Sequence 11, Appl	811	71	4.1	367	4	PCT-US94-07280-9	Sequence 9, Appli
740	72	4.1	981	2	US-09-991-258-13	Sequence 13, Appl	812	71	4.1	367	4	PCT-US95-01087-9	Sequence 9, Appli
741	72	4.1	1010	2	US-09-248-796A-16379	Sequence 16379, A	813	71	4.1	402	1	US-08-460-806-17	Sequence 17, Appl
742	72	4.1	1216	2	US-09-134-000C-5130	Sequence 5130, Ap	814	71	4.1	402	1	US-08-325-630-17	Sequence 17, Appl
743	72	4.1	1487	2	US-08-840-062-7	Sequence 7, Appli	815	71	4.1	410	1	US-08-188-281B-18	Sequence 18, Appl
744	71.5	4.1	158	2	US-09-640-211A-1035	Sequence 1035, Ap	816	71	4.1	410	4	PCT-US94-07280-18	Sequence 18, Appl
745	71.5	4.1	179	2	US-09-328-352-4604	Sequence 4604, Ap	817	71	4.1	410	4	PCT-US95-01087-18	Sequence 18, Appl
746	71.5	4.1	258	2	US-09-252-991A-28812	Sequence 28812, A	818	71	4.1	448	2	US-09-248-796A-19163	Sequence 19163, A
747	71.5	4.1	263	2	US-09-134-000C-4830	Sequence 4830, Ap	819	71	4.1	450	2	US-09-198-452A-35	Sequence 35, Appl
748	71.5	4.1	346	1	US-07-952-853-24	Sequence 24, Appl	820	71	4.1	471	2	US-09-784-810C-6	Sequence 6, Appli
749	71.5	4.1	346	1	US-08-914-848-24	Sequence 24, Appl	821	71	4.1	471	2	US-09-291-023A-2	Sequence 2, Appli
750	71.5	4.1	356	2	US-09-540-236-3465	Sequence 3465, Ap	822	71	4.1	485	2	US-09-291-023A-15	Sequence 15, Appl
751	71.5	4.1	370	2	US-09-697-863A-4	Sequence 4, Appli	823	71	4.1	485	2	US-09-540-715A-2	Sequence 2, Appli
752	71.5	4.1	404	2	US-09-248-796A-20215	Sequence 20215, A	824	71	4.1	485	2	US-08-453-552-4	Sequence 4, Appli
753	71.5	4.1	458	2	US-09-583-110-5167	Sequence 5167, Ap	825	71	4.1	537	1	US-08-710-637-4	Sequence 4, Appli
754	71.5	4.1	463	2	US-09-107-433-3506	Sequence 3506, Ap	826	71	4.1	537	1	US-08-710-637-4	Sequence 4, Appli
755	71.5	4.1	471	2	US-09-118-324-5	Sequence 5, Appli	827	71	4.1	537	4	PCT-US93-00907-4	Sequence 4, Appli
756	71.5	4.1	471	2	US-09-286-691-12	Sequence 12, Appl	828	71	4.1	569	2	US-09-248-796A-15541	Sequence 15541, A
757	71.5	4.1	471	2	US-09-687-147-12	Sequence 12, Appl	829	71	4.1	604	2	US-09-508-213-3	Sequence 3, Appli
758	71.5	4.1	516	1	US-08-676-166A-2	Sequence 2, Appli	830	71	4.1	641	2	US-09-583-110-4263	Sequence 4263, Ap
759	71.5	4.1	620	2	US-09-931-009B-1	Sequence 1, Appli	831	71	4.1	641	2	US-09-107-433-2948	Sequence 2948, Ap
760	71.5	4.1	627	2	US-09-583-110-5137	Sequence 5137, Ap	832	71	4.1	706	2	US-09-252-991A-25730	Sequence 25730, A
761	71.5	4.1	631	1	US-08-487-890A-111	Sequence 111, App	833	71	4.1	845	2	US-09-408-020-62	Sequence 62, Appl
762	71.5	4.1	631	1	US-08-478-435-111	Sequence 111, App	834	71	4.1	853	1	US-08-638-911A-25	Sequence 25, Appl
763	71.5	4.1	631	1	US-08-337-483-111	Sequence 111, App	835	71	4.1	853	1	US-08-638-911A-27	Sequence 27, Appl
764	71.5	4.1	631	1	US-08-478-373-111	Sequence 111, App	836	71	4.1	853	1	US-08-638-911A-29	Sequence 29, Appl
765	71.5	4.1	631	2	US-08-474-671-111	Sequence 111, App	837	71	4.1	853	1	US-08-638-911A-31	Sequence 31, Appl
766	71.5	4.1	631	2	US-08-483-577A-111	Sequence 111, App	838	71	4.1	967	2	US-09-809-665A-32	Sequence 32, Appl
							839	71	4.1	1752	2	US-09-865-621A-2	Sequence 2, Appli

840	70.5	4.0	294	2	US-08-996-139-11	Sequence 11, Appl	913	70	4.0	221	2	US-09-373-157-3	Sequence 3, Appli
841	70.5	4.0	294	2	US-08-995-659-11	Sequence 11, Appl	914	70	4.0	270	2	US-09-976-118-2	Sequence 2, Appli
842	70.5	4.0	294	2	US-09-215-649A-11	Sequence 11, Appl	915	70	4.0	278	2	US-09-260-283-2	Sequence 2, Appli
843	70.5	4.0	294	2	US-09-577-780-11	Sequence 11, Appl	916	70	4.0	375	1	US-08-304-076A-2	Sequence 2, Appli
844	70.5	4.0	294	2	US-09-577-800-11	Sequence 11, Appl	917	70	4.0	383	2	US-09-248-796A-17492	Sequence 17492, A
845	70.5	4.0	294	2	US-09-466-496-11	Sequence 11, Appl	918	70	4.0	385	2	US-09-543-681A-7952	Sequence 7952, Ap
846	70.5	4.0	294	2	US-09-871-856-11	Sequence 11, Appl	919	70	4.0	389	1	US-08-846-762-82	Sequence 82, Appl
847	70.5	4.0	294	2	US-09-871-291-11	Sequence 11, Appl	920	70	4.0	402	1	US-08-460-806-7	Sequence 7, Appli
848	70.5	4.0	294	2	US-09-877-650-11	Sequence 11, Appl	921	70	4.0	402	1	US-08-325-630-7	Sequence 7, Appli
849	70.5	4.0	294	2	US-09-865-363-11	Sequence 11, Appl	922	70	4.0	407	2	US-09-248-796A-18700	Sequence 18700, A
850	70.5	4.0	294	2	US-09-688-459-11	Sequence 11, Appl	923	70	4.0	418	2	US-09-583-110-4220	Sequence 4220, Ap
851	70.5	4.0	316	1	US-08-842-842-7	Sequence 7, Appli	924	70	4.0	421	1	US-08-807-263-4	Sequence 4, Appli
852	70.5	4.0	316	2	US-08-989-362-2	Sequence 2, Appli	925	70	4.0	431	1	US-09-107-433-3641	Sequence 3641, Ap
853	70.5	4.0	316	2	US-09-052-521C-2	Sequence 2, Appli	926	70	4.0	442	2	US-09-248-796A-18588	Sequence 18588, A
854	70.5	4.0	316	2	US-09-671-658A-2	Sequence 2, Appli	927	70	4.0	462	2	US-09-919-039-324	Sequence 324, App
855	70.5	4.0	316	2	US-09-396-937-4	Sequence 4, Appli	928	70	4.0	526	2	US-09-538-092-1080	Sequence 1080, Ap
856	70.5	4.0	316	2	US-09-396-937-6	Sequence 6, Appli	929	70	4.0	531	2	US-09-578-827A-2	Sequence 2, Appli
857	70.5	4.0	316	2	US-09-957-944-8	Sequence 8, Appli	930	70	4.0	532	1	US-08-899-324-33	Sequence 33, Appl
858	70.5	4.0	344	2	US-09-902-540-13506	Sequence 13506, A	931	70	4.0	532	2	US-08-329-892B-33	Sequence 33, Appl
859	70.5	4.0	400	2	US-09-264-097-6	Sequence 6, Appli	932	70	4.0	738	1	US-07-985-458-3	Sequence 3, Appli
860	70.5	4.0	434	1	US-08-188-281B-10	Sequence 10, Appl	933	70	4.0	772	2	US-09-949-016-7314	Sequence 7314, Ap
861	70.5	4.0	434	4	PCT-US94-07280-10	Sequence 10, Appl	934	70	4.0	772	2	US-09-949-016-7315	Sequence 7315, Ap
862	70.5	4.0	434	4	PCT-US95-01087-10	Sequence 10, Appl	935	70	4.0	772	2	US-09-949-016-7316	Sequence 7316, Ap
863	70.5	4.0	481	2	US-09-537-168-2	Sequence 2, Appli	936	70	4.0	772	2	US-09-949-016-7317	Sequence 7317, Ap
864	70.5	4.0	483	1	US-08-645-971-2	Sequence 2, Appli	937	70	4.0	867	2	US-09-634-252A-6	Sequence 6, Appli
865	70.5	4.0	483	2	US-09-381-687-8	Sequence 8, Appli	938	70	4.0	1545	2	US-08-296-791-4	Sequence 4, Appli
866	70.5	4.0	485	2	US-09-290-734-24	Sequence 24, Appl	939	70	4.0	1545	2	US-09-839-996-4	Sequence 4, Appli
867	70.5	4.0	485	2	US-09-290-734-26	Sequence 26, Appl	940	70	4.0	1545	2	US-10-080-505-4	Sequence 4, Appli
868	70.5	4.0	485	2	US-09-417-359A-5	Sequence 5, Appli	941	70	4.0	1545	2	US-10-645-655-4	Sequence 4, Appli
869	70.5	4.0	485	2	US-09-545-586-24	Sequence 24, Appl	942	70	4.0	1545	4	PCT-US95-10661A-4	Sequence 4, Appli
870	70.5	4.0	485	2	US-09-545-586-26	Sequence 26, Appl	943	70	4.0	1569	2	US-09-711-164-312	Sequence 312, App
871	70.5	4.0	491	2	US-08-740-223A-13	Sequence 13, Appl	944	70	4.0	2013	1	US-08-324-977-12	Sequence 12, Appl
872	70.5	4.0	491	2	US-09-709-188-13	Sequence 13, Appl	945	70	4.0	2013	1	US-08-384-616-12	Sequence 12, Appl
873	70.5	4.0	491	2	US-10-225-060-13	Sequence 13, Appl	946	70	4.0	2013	1	US-08-904-686A-12	Sequence 12, Appl
874	70.5	4.0	498	2	US-09-489-039A-12187	Sequence 12187, A	947	70	4.0	2013	2	US-09-315-850-12	Sequence 12, Appl
875	70.5	4.0	526	2	US-09-548-938A-10	Sequence 10, Appl	948	70	4.0	3010	1	US-08-324-977-2	Sequence 2, Appli
876	70.5	4.0	608	2	US-09-489-039A-13204	Sequence 13204, A	949	70	4.0	3010	1	US-08-324-977-14	Sequence 14, Appl
877	70.5	4.0	642	2	US-09-605-042A-39	Sequence 39, Appl	950	70	4.0	3010	1	US-08-384-616-2	Sequence 2, Appli
878	70.5	4.0	643	2	US-09-328-352-5146	Sequence 5146, Ap	951	70	4.0	3010	1	US-08-384-616-14	Sequence 14, Appl
879	70.5	4.0	644	1	US-08-206-176-2	Sequence 2, Appli	952	70	4.0	3010	1	US-08-904-686A-2	Sequence 2, Appli
880	70.5	4.0	657	2	US-08-613-009A-19	Sequence 19, Appl	953	70	4.0	3010	1	US-08-904-686A-14	Sequence 14, Appl
881	70.5	4.0	657	2	US-08-778-570B-25	Sequence 25, Appl	954	70	4.0	3010	2	US-09-315-850-2	Sequence 2, Appli
882	70.5	4.0	657	2	US-09-059-584-25	Sequence 25, Appl	955	70	4.0	3010	2	US-09-315-850-14	Sequence 14, Appl
883	70.5	4.0	833	1	US-08-844-086-2	Sequence 2, Appli	956	69.5	4.0	126	2	US-09-621-976-5166	Sequence 5166, Ap
884	70.5	4.0	833	2	US-09-018-211-2	Sequence 2, Appli	957	69.5	4.0	246	2	US-09-902-540-11301	Sequence 11301, A
885	70.5	4.0	833	2	US-09-583-110-4098	Sequence 4098, Ap	958	69.5	4.0	250	2	US-09-952-572-8	Sequence 8, Appli
886	70.5	4.0	860	2	US-09-489-039A-8582	Sequence 8582, Ap	959	69.5	4.0	273	2	US-10-104-047-2397	Sequence 2397, Ap
887	70.5	4.0	920	2	US-09-538-092-1197	Sequence 1197, Ap	960	69.5	4.0	323	1	US-08-404-445-3	Sequence 3, Appli
888	70.5	4.0	927	2	US-09-328-352-7922	Sequence 7922, Ap	961	69.5	4.0	333	1	US-08-453-552-12	Sequence 12, Appl
889	70.5	4.0	928	1	US-08-474-140-11	Sequence 11, Appl	962	69.5	4.0	333	1	US-08-710-637-12	Sequence 12, Appl
890	70.5	4.0	928	1	US-08-477-630-11	Sequence 11, Appl	963	69.5	4.0	333	4	PCT-US93-00907-12	Sequence 12, Appl
891	70.5	4.0	928	1	US-08-472-293-11	Sequence 11, Appl	964	69.5	4.0	399	1	US-08-453-552-10	Sequence 10, Appl
892	70.5	4.0	928	1	US-08-474-545-11	Sequence 11, Appl	965	69.5	4.0	399	1	US-08-710-637-10	Sequence 10, Appl
893	70.5	4.0	928	1	US-08-478-341-11	Sequence 11, Appl	966	69.5	4.0	399	4	PCT-US93-00907-10	Sequence 10, Appl
894	70.5	4.0	928	2	US-08-996-733-11	Sequence 11, Appl	967	69.5	4.0	400	2	US-09-710-279-2774	Sequence 2774, Ap
895	70.5	4.0	928	2	US-09-514-599-4	Sequence 4, Appli	968	69.5	4.0	424	2	US-09-627-376-8	Sequence 8, Appli
896	70.5	4.0	928	2	US-09-996-024-4	Sequence 4, Appli	969	69.5	4.0	424	2	US-10-047-676B-8	Sequence 8, Appli
897	70.5	4.0	995	1	US-08-162-809-18	Sequence 18, Appl	970	69.5	4.0	437	2	US-08-914-375C-65	Sequence 65, Appl
898	70.5	4.0	1011	1	US-08-162-809-12	Sequence 12, Appl	971	69.5	4.0	439	2	US-09-282-305-6	Sequence 6, Appli
899	70.5	4.0	1160	2	US-08-808-599A-24	Sequence 24, Appl	972	69.5	4.0	439	2	US-09-883-720-6	Sequence 6, Appli
900	70.5	4.0	1443	1	US-08-308-872B-2	Sequence 2, Appli	973	69.5	4.0	497	2	US-09-134-001C-5114	Sequence 5114, Ap
901	70.5	4.0	1709	2	US-09-949-016-11345	Sequence 11345, A	974	69.5	4.0	636	2	US-10-152-886-39	Sequence 39, Appl
902	70.5	4.0	2864	2	US-08-469-260A-394	Sequence 394, App	975	69.5	4.0	753	2	US-09-276-400-2	Sequence 2, Appli
903	70.5	4.0	2864	2	US-08-488-446-394	Sequence 394, App	976	69.5	4.0	753	2	US-09-448-076-2	Sequence 2, Appli
904	70.5	4.0	2864	2	US-08-467-344A-394	Sequence 394, App	977	69.5	4.0	753	2	US-09-702-572-2	Sequence 2, Appli
905	70.5	4.0	2864	2	US-08-424-550B-394	Sequence 394, App	978	69.5	4.0	756	2	US-09-949-016-10453	Sequence 10453, A
906	70.5	4.0	2894	1	US-08-466-975A-23	Sequence 23, Appl	979	69.5	4.0	776	2	US-09-165-396-3	Sequence 3, Appli
907	70.5	4.0	2894	1	US-08-391-671A-23	Sequence 23, Appl	980	69.5	4.0	945	2	US-09-949-016-8172	Sequence 8172, Ap
908	70.5	4.0	2894	2	US-08-467-902A-23	Sequence 23, Appl	981	69.5	4.0	984	2	US-09-949-016-6502	Sequence 6502, Ap
909	70.5	4.0	2894	2	US-09-275-265-23	Sequence 23, Appl	982	69.5	4.0	1063	2	US-09-595-857B-29	Sequence 29, Appl
910	70.5	4.0	2894	2	US-09-941-611-23	Sequence 23, Appl	983	69.5	4.0	1114	2	US-09-637-145-4	Sequence 4, Appli
911	70.5	4.0	2894	2	US-10-044-995-23	Sequence 23, Appl	984	69.5	4.0	1224	2	US-09-538-092-1200	Sequence 1200, Ap
912	70.5	4.0	3571	2	US-09-911-842A-2	Sequence 2, Appli	985	69.5	4.0	1276	2	US-09-297-937C-13	Sequence 13, Appl

986	69.5	4.0	1475	2	US-09-007-999-2	Sequence 2, Appli	1067	68.5	3.9	382	2	US-09-115-453-108	Sequence 108, App
987	69.5	4.0	1475	2	US-09-210-361-2	Sequence 2, Appli	1068	68.5	3.9	382	2	US-09-688-489-108	Sequence 108, App
988	69.5	4.0	1475	2	US-09-740-274-2	Sequence 2, Appli	1069	68.5	3.9	382	2	US-09-679-426-108	Sequence 108, App
989	69.5	4.0	2871	2	US-09-538-092-1076	Sequence 1076, Ap	1070	68.5	3.9	382	2	US-09-759-143-108	Sequence 108, App
990	69	3.9	139	2	US-09-540-236-3184	Sequence 3184, Ap	1071	68.5	3.9	382	2	US-09-651-236-108	Sequence 108, App
991	69	3.9	141	1	US-08-766-858A-46	Sequence 46, Appli	1072	68.5	3.9	382	2	US-09-030-606-108	Sequence 108, App
992	69	3.9	191	2	US-09-462-625-4	Sequence 4, Appli	1073	68.5	3.9	382	2	US-09-657-279-108	Sequence 108, App
993	69	3.9	196	2	US-09-469-242-6	Sequence 6, Appli	1074	68.5	3.9	382	2	US-10-012-896-108	Sequence 108, App
1002	69	3.9	228	2	US-09-248-335-70	Sequence 70, Appl	1075	68.5	3.9	400	2	US-09-797-464A-4	Sequence 4, Appli
1003	69	3.9	229	2	US-09-631-616-13	Sequence 13, Appl	1076	68.5	3.9	445	1	US-08-440-103-23	Sequence 23, Appl
1004	69	3.9	327	2	US-09-134-000C-6682	Sequence 6682, Ap	1077	68.5	3.9	445	1	US-08-440-542-23	Sequence 23, Appl
1005	69	3.9	345	2	US-09-134-000C-6576	Sequence 6576, Ap	1078	68.5	3.9	445	1	US-08-231-368-23	Sequence 23, Appl
1006	69	3.9	357	2	US-09-489-039A-14100	Sequence 14100, A	1079	68.5	3.9	445	1	US-08-440-210-23	Sequence 23, Appl
1007	69	3.9	388	2	US-09-949-016-7631	Sequence 7631, Ap	1080	68.5	3.9	445	2	US-09-046-604-23	Sequence 23, Appl
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1010	69	3.9	443	2	US-09-711-164-462	Sequence 462, App	1083	68.5	3.9	521	2	US-09-270-767-46291	Sequence 46291, A
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1012	69	3.9	461	2	US-08-742-877-2	Sequence 2, Appli	1085	68.5	3.9	528	1	US-08-458-181-13	Sequence 13, Appl
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1015	69	3.9	501	2	US-09-465-519-2	Sequence 2, Appli	1088	68.5	3.9	534	2	US-09-199-290-9	Sequence 9, Appli
1016	69	3.9	501	2	US-10-136-272-2	Sequence 2, Appli	1089	68.5	3.9	534	2	US-09-632-392-2	Sequence 2, Appli
1017	69	3.9	503	2	US-08-700-651-6	Sequence 6, Appli	1090	68.5	3.9	534	2	US-09-455-679-1	Sequence 1, Appli
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1019	69	3.9	511	1	US-08-468-700-35	Sequence 35, Appl	1092	68.5	3.9	534	2	US-09-821-616-9	Sequence 9, Appli
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1028	69	3.9	511	2	US-08-985-659-36	Sequence 36, Appl	1101	68.5	3.9	607	2	US-08-537-361E-10	Sequence 10, Appl
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1031	69	3.9	511	4	PCT-US95-10426-33	Sequence 33, Appl	1104	68.5	3.9	609	2	US-09-538-092-711	Sequence 711, App
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1033	69	3.9	655	1	US-08-148-910-12	Sequence 12, Appl	1106	68.5	3.9	651	2	US-09-252-991A-18065	Sequence 18065, A
1034	69	3.9	655	1	US-08-448-937A-12	Sequence 12, Appl	1107	68.5	3.9	695	2	US-09-489-039A-14338	Sequence 14338, A
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1040	69	3.9	1007	1	US-08-551-459-4	Sequence 4, Appli	1113	68.5	3.9	901	2	US-09-074-658-70	Sequence 70, Appl
1041	69	3.9	1231	2	US-08-714-741-41	Sequence 41, Appl	1114	68.5	3.9	905	2	US-09-422-936-45	Sequence 45, Appl
1042	69	3.9	1335	2	US-09-134-001C-3716	Sequence 3716, Ap	1115	68.5	3.9	1015	2	US-09-285-385C-2	Sequence 2, Appli
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1044	69	3.9	2254	2	US-08-980-357-28	Sequence 28, Appl	1117	68.5	3.9	1297	2	US-09-107-532A-4552	Sequence 4552, Ap
1045	69	3.9	2254	2	US-09-357-375-28	Sequence 28, Appl	1118	68.5	3.9	1350	2	US-09-784-554B-4	Sequence 4, Appli
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1048	69	3.9	2910	1	US-08-464-134-183	Sequence 183, App	1121	68.5	3.9	1745	2	US-09-949-002-405	Sequence 405, App
1049	69	3.9	2910	1	US-08-461-361-183	Sequence 183, App	1122	68.5	3.9	1771	2	US-09-949-002-492	Sequence 492, App
1050	69	3.9	2910	1	US-08-485-910-183	Sequence 183, App	1123	68.5	3.9	1876	1	US-08-619-554-2	Sequence 2, Appli
1051	69	3.9	2910	4	PCT-US95-06266-157	Sequence 157, App	1124	68.5	3.9	1876	2	US-09-487-558B-102	Sequence 102, App
1052	68.5	3.9	300	2	US-09-338-746-6	Sequence 6, Appli	1125	68.5	3.9	3461	2	US-09-334-220-2	Sequence 2, Appli
1053	68.5	3.9	305	2	US-10-104-047-2350	Sequence 2350, Ap	1126	68.5	3.9	30	2	US-09-164-021-2	Sequence 2, Appli
1054	68.5	3.9	353	1	US-08-440-103-32	Sequence 32, Appl	1127	68	3.9	30	2	US-09-519-703-2	Sequence 2, Appli
1055	68.5	3.9	353	1	US-08-440-542-32	Sequence 32, Appl	1128	68	3.9	208	2	US-09-101-272G-98	Sequence 98, Appl
1056	68.5	3.9	353	1	US-08-231-368-32	Sequence 32, Appl	1129	68	3.9	297	2	US-09-902-540-14353	Sequence 3, Appli
1057	68.5	3.9	353	1	US-08-440-210-32	Sequence 32, Appl	1130	68	3.9	319	2	US-08-682-643-3	Sequence 1, Appli
1058	68.5	3.9	353	2	US-09-046-604-32	Sequence 32, Appl	1131	68	3.9	319	2	US-09-381-982C-1	Sequence 1, Appli
1059	68.5	3.9	382	2	US-09-020-956-108	Sequence 108, App	1132	68	3.9	340	2	US-09-769-787-188	Sequence 188, App
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1062	68.5	3.9	382	2	US-09-352-616A-108	Sequence 108, App	1135	68	3.9	402	1	US-08-325-630-13	Sequence 13, Appl
1063	68.5	3.9	382	2	US-09-232-149A-108	Sequence 108, App	1136	68	3.9	403	1	US-08-483-695-39	Sequence 39, Appl
1064	68.5	3.9	382	2	US-09-159-812-108	Sequence 108, App	1137	68	3.9	403	1	US-07-965-285-39	Sequence 39, Appl
1065	68.5	3.9	382	2	US-09-636-215-108	Sequence 108, App	1138	68	3.9	403	1	US-08-487-231-39	Sequence 39, Appl
1066	68.5	3.9	382	2	US-09-685-166A-108	Sequence 108, App	1139	68	3.9	403	1		

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1141	68	3.9	425	2	US-09-252-991A-28692	Sequence 28692, A	1214	67.5	3.9	441	2	US-08-182-045-10	Sequence 10, Appl
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1143	68	3.9	435	2	US-09-252-991A-31215	Sequence 31215, A	1216	67.5	3.9	452	2	US-09-242-913B-2	Sequence 2, Appl
1144	68	3.9	443	2	US-09-489-039A-7461	Sequence 7461, Ap	1217	67.5	3.9	461	2	US-09-422-936-57	Sequence 57, Appl
1145	68	3.9	476	2	US-09-339-159B-4	Sequence 4, Appl	1218	67.5	3.9	463	2	US-09-375-140-10	Sequence 10, Appl
1146	68	3.9	488	2	US-09-538-092-1367	Sequence 1367, Ap	1219	67.5	3.9	467	2	US-09-411-132A-9	Sequence 9, Appl
1147	68	3.9	511	2	US-09-305-681-6	Sequence 6, Appl	1220	67.5	3.9	474	2	US-09-732-615-12	Sequence 12, Appl
1148	68	3.9	539	2	US-09-194-949A-11	Sequence 11, Appl	1221	67.5	3.9	474	2	US-10-273-051-12	Sequence 12, Appl
1149	68	3.9	579	2	US-09-744-852-2	Sequence 2, Appl	1222	67.5	3.9	496	2	US-09-422-936-85	Sequence 85, Appl
1150	68	3.9	588	2	US-08-481-190-16	Sequence 16, Appl	1223	67.5	3.9	545	2	US-09-269-731-8	Sequence 8, Appl
1151	68	3.9	588	4	PCT-US93-00869-16	Sequence 16, Appl	1224	67.5	3.9	545	2	US-09-988-200-8	Sequence 8, Appl
1152	68	3.9	591	2	US-09-370-368-8	Sequence 8, Appl	1225	67.5	3.9	548	2	US-09-375-140-11	Sequence 11, Appl
1153	68	3.9	616	2	US-09-136-574A-47	Sequence 47, Appl	1226	67.5	3.9	574	2	US-09-142-623-13	Sequence 13, Appl
1154	68	3.9	616	2	US-09-236-063-1	Sequence 1, Appl	1227	67.5	3.9	578	2	US-09-422-936-55	Sequence 55, Appl
1155	68	3.9	642	2	US-09-543-681A-7930	Sequence 7930, Ap	1228	67.5	3.9	600	2	US-09-489-039A-7380	Sequence 7380, Ap
1156	68	3.9	686	2	US-09-786-480B-32	Sequence 32, Appl	1229	67.5	3.9	613	2	US-09-508-264A-3	Sequence 3, Appl
1157	68	3.9	689	2	US-08-778-570B-16	Sequence 16, Appl	1230	67.5	3.9	616	2	US-09-534-228B-1	Sequence 1, Appl
1158	68	3.9	689	2	US-09-059-584-16	Sequence 16, Appl	1231	67.5	3.9	624	2	US-09-970-367-6	Sequence 6, Appl
1159	68	3.9	690	2	US-09-228-986-69	Sequence 69, Appl	1232	67.5	3.9	643	2	US-09-178-252-25	Sequence 25, Appl
1160	68	3.9	690	2	US-10-101-464A-69	Sequence 69, Appl	1233	67.5	3.9	643	2	US-09-826-660-25	Sequence 25, Appl
1161	68	3.9	691	2	US-09-949-016-7775	Sequence 7775, Ap	1234	67.5	3.9	686	2	US-09-508-377-71	Sequence 71, Appl
1162	68	3.9	703	2	US-09-786-480B-22	Sequence 22, Appl	1235	67.5	3.9	690	2	US-09-336-115C-22	Sequence 22, Appl
1163	68	3.9	709	2	US-08-778-570B-15	Sequence 15, Appl	1236	67.5	3.9	691	2	US-09-336-115C-12	Sequence 12, Appl
1164	68	3.9	709	2	US-09-059-584-15	Sequence 15, Appl	1237	67.5	3.9	693	1	US-08-056-200-112	Sequence 112, App
1165	68	3.9	824	2	US-09-248-796A-20885	Sequence 20885, A	1238	67.5	3.9	693	1	US-08-800-644-112	Sequence 112, App
1166	68	3.9	844	2	US-09-422-936-51	Sequence 51, Appl	1239	67.5	3.9	693	2	US-09-949-016-6332	Sequence 6332, Ap
1167	68	3.9	844	2	US-09-719-085A-4	Sequence 4, Appl	1240	67.5	3.9	767	2	US-08-836-567-8	Sequence 8, Appl
1168	68	3.9	886	2	US-09-422-936-77	Sequence 77, Appl	1241	67.5	3.9	767	2	US-09-606-304-8	Sequence 8, Appl
1169	68	3.9	892	2	US-09-422-936-75	Sequence 75, Appl	1242	67.5	3.9	892	2	US-09-336-447A-5	Sequence 5, Appl
1170	68	3.9	899	2	US-09-422-936-71	Sequence 71, Appl	1243	67.5	3.9	892	2	US-09-952-267B-5	Sequence 5, Appl
1171	68	3.9	944	1	US-08-867-941-24	Sequence 24, Appl	1244	67.5	3.9	915	2	US-09-346-237-2	Sequence 2, Appl
1172	68	3.9	944	2	US-09-074-658-24	Sequence 24, Appl	1245	67.5	3.9	1040	2	US-09-564-805-238	Sequence 238, App
1173	68	3.9	961	2	US-09-422-936-49	Sequence 49, Appl	1246	67.5	3.9	1186	2	US-09-178-252-23	Sequence 23, Appl
1174	68	3.9	961	2	US-09-914-259-14	Sequence 14, Appl	1247	67.5	3.9	1186	2	US-09-826-660-23	Sequence 23, Appl
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1176	68	3.9	1143	1	US-08-310-912A-108	Sequence 108, App	1249	67.5	3.9	1227	2	US-08-961-803-9	Sequence 9, Appl
1177	68	3.9	1143	2	US-09-301-085-108	Sequence 108, App	1250	67.5	3.9	1227	2	US-09-661-322A-63	Sequence 63, Appl
1178	68	3.9	1143	4	PCT-US95-04589-108	Sequence 108, App	1251	67.5	3.9	1290	1	US-08-470-350B-2	Sequence 2, Appl
1179	68	3.9	1144	1	US-08-261-663A-2	Sequence 2, Appl	1252	67.5	3.9	1295	2	US-09-328-352-6045	Sequence 2, Appl
1180	68	3.9	1144	1	US-08-261-663A-4	Sequence 4, Appl	1253	67.5	3.9	1938	2	US-09-514-302-2	Sequence 2, Appl
1181	68	3.9	1144	2	US-08-930-996A-9	Sequence 9, Appl	1254	67.5	3.9	1938	2	US-10-014-436-2	Sequence 2, Appl
1182	68	3.9	1144	2	US-09-357-206A-3	Sequence 3, Appl	1255	67	3.8	197	1	US-08-044-621D-29	Sequence 29, Appl
1183	68	3.9	1144	2	US-09-813-742A-3	Sequence 3, Appl	1256	67	3.8	197	1	US-08-709-912-9	Sequence 9, Appl
1184	68	3.9	1144	4	PCT-US95-07754A-2	Sequence 2, Appl	1257	67	3.8	197	1	US-09-047-370-9	Sequence 9, Appl
1185	68	3.9	1144	4	PCT-US95-07754A-4	Sequence 4, Appl	1258	67	3.8	197	2	US-09-570-856B-18	Sequence 18, Appl
1186	68	3.9	1426	2	US-09-136-574A-43	Sequence 43, Appl	1259	67	3.8	208	2	US-09-540-236-3351	Sequence 3351, Ap
1187	68	3.9	2161	1	US-07-745-206A-2	Sequence 2, Appl	1260	67	3.8	306	2	US-09-248-796A-16865	Sequence 16865, A
1188	68	3.9	2161	1	US-08-455-543A-49	Sequence 49, Appl	1261	67	3.8	307	2	US-09-902-540-12057	Sequence 12057, A
1189	68	3.9	2161	1	US-08-455-543A-51	Sequence 51, Appl	1262	67	3.8	318	2	US-09-248-796A-16752	Sequence 16752, A
1190	68	3.9	2161	1	US-08-223-305C-49	Sequence 49, Appl	1263	67	3.8	334	2	US-09-489-039A-9370	Sequence 9370, Ap
1191	68	3.9	2161	1	US-08-223-305C-51	Sequence 51, Appl	1264	67	3.8	349	2	US-09-489-039A-10686	Sequence 10686, A
1192	68	3.9	2161	1	US-08-311-363-2	Sequence 2, Appl	1265	67	3.8	353	1	US-08-440-103-31	Sequence 31, Appl
1193	68	3.9	2175	2	US-09-693-205A-8	Sequence 8, Appl	1266	67	3.8	353	1	US-08-440-542-31	Sequence 31, Appl
1194	68	3.9	2181	2	US-09-949-016-5981	Sequence 5981, Ap	1267	67	3.8	353	1	US-08-231-368-31	Sequence 31, Appl
1195	68	3.9	2188	2	US-09-949-016-8295	Sequence 8295, Ap	1268	67	3.8	353	1	US-08-440-210-31	Sequence 31, Appl
1196	68	3.9	2873	1	US-08-466-033-15	Sequence 15, Appl	1269	67	3.8	353	2	US-09-046-604-31	Sequence 31, Appl
1197	68	3.9	2873	1	US-08-638-911A-2	Sequence 2, Appl	1270	67	3.8	367	1	US-08-440-103-17	Sequence 17, Appl
1198	68	3.9	2873	1	US-08-444-733-15	Sequence 15, Appl	1271	67	3.8	367	1	US-08-440-542-17	Sequence 17, Appl
1199	68	3.9	2873	1	US-08-464-134-15	Sequence 15, Appl	1272	67	3.8	367	1	US-08-231-368-17	Sequence 17, Appl
1200	68	3.9	2873	1	US-08-461-361-15	Sequence 15, Appl	1273	67	3.8	367	1	US-08-440-210-17	Sequence 17, Appl
1201	68	3.9	2873	1	US-08-485-910-15	Sequence 15, Appl	1274	67	3.8	367	2	US-09-046-604-17	Sequence 17, Appl
1202	68	3.9	2873	4	PCT-US95-06266-15	Sequence 15, Appl	1275	67	3.8	370	1	US-08-341-538A-2	Sequence 2, Appl
1203	68	3.9	3829	2	US-09-693-205A-2	Sequence 2, Appl	1276	67	3.8	370	1	US-08-725-518-2	Sequence 2, Appl
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1206	67.5	3.9	277	2	US-09-270-767-44706	Sequence 44706, A	1279	67	3.8	375	2	US-09-538-092-1244	Sequence 1244, Ap
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1210	67.5	3.9	397	4	PCT-US95-01087-11	Sequence 11, Appl	1283	67	3.8	406	2	US-10-104-047-3928	Sequence 3928, Ap
1211	67.5	3.9	426	2	US-09-242-913B-3	Sequence 3, Appl	1284	67	3.8	420	2	US-09-107-532A-5946	Sequence 5946, Ap
1212	67.5	3.9	441	2	US-08-985-526-3	Sequence 3, Appl	1285	67	3.8	437	2	US-09-538-092-109	Sequence 109, App

1286	67	3.8	439	2	US-08-914-375C-67	Sequence 67, Appl	1359	66.5	3.8	405	2	US-09-543-681A-7024	Sequence 7024, Ap
1287	67	3.8	441	1	US-08-470-187-8	Sequence 8, Appli	1360	66.5	3.8	406	1	US-08-446-777-4	Sequence 4, Appli
1288	67	3.8	441	1	US-08-318-905-8	Sequence 8, Appli	1361	66.5	3.8	406	2	US-08-506-296B-5	Sequence 5, Appli
1289	67	3.8	441	1	US-08-483-232-8	Sequence 8, Appli	1362	66.5	3.8	406	2	US-09-949-016-6306	Sequence 6306, Ap
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1294	67	3.8	441	2	US-09-100-546-8	Sequence 8, Appli	1367	66.5	3.8	426	2	US-09-949-016-11137	Sequence 11137, A
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1298	67	3.8	441	2	US-09-949-002-379	Sequence 379, App	1373	66.5	3.8	477	2	US-08-704-711A-20	Sequence 20, Appl
1299	67	3.8	445	2	US-09-843-905A-12	Sequence 12, Appl	1374	66.5	3.8	477	2	US-08-448-489-15	Sequence 15, Appl
1300	67	3.8	448	2	US-09-949-002-571	Sequence 571, App	1375	66.5	3.8	477	2	US-08-281-313-1	Sequence 9, Appli
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1305	67	3.8	490	2	US-09-949-016-7057	Sequence 7057, Ap	1380	66.5	3.8	482	2	US-09-446-803-1	Sequence 538, App
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1307	67	3.8	505	2	US-08-976-063B-22	Sequence 22, Appl	1382	66.5	3.8	485	1	US-08-600-908A-12	Sequence 12, Appl
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1322	67	3.8	783	2	US-09-902-540-11405	Sequence 31, Appl	1397	66.5	3.8	485	2	US-09-545-586-7	Sequence 7, Appli
1323	67	3.8	790	2	US-09-543-681A-6460	Sequence 53, Appl	1400	66.5	3.8	485	2	US-09-540-715A-19	Sequence 19, Appl
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1327	67	3.8	909	1	US-08-363-124A-4	Sequence 61, Appl	1404	66.5	3.8	485	2	US-09-441-313-1	Sequence 1, Appli
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1331	67	3.8	992	2	US-10-193-764-57	Sequence 17, Appl	1408	66.5	3.8	496	2	US-08-740-223A-22	Sequence 22, Appl
1332	67	3.8	998	2	US-09-206-942-59	Sequence 69, Appl	1410	66.5	3.8	496	2	US-09-709-188-22	Sequence 22, Appl
1333	67	3.8	998	2	US-10-193-764-55	Sequence 38, Appl	1411	66.5	3.8	496	2	US-10-225-060-22	Sequence 22, Appl
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1335	67	3.8	1411	2	US-10-080-505-17	Sequence 55, Appl	1413	66.5	3.8	528	2	US-09-949-016-10030	Sequence 10030, A
1336	67	3.8	1525	2	US-09-418-710-69	Sequence 68, Appl	1414	66.5	3.8	542	2	US-09-543-681A-6775	Sequence 6775, Ap
1337	67	3.8	1525	2	US-09-839-479-68	Sequence 43, Appl	1415	66.5	3.8	559	2	US-08-506-296B-66	Sequence 66, Appl
1338	66.5	3.8	93	1	US-08-341-843B-38	Sequence 55, Appl	1416	66.5	3.8	623	2	US-09-583-110-4292	Sequence 4292, Ap
1339	66.5	3.8	93	1	US-08-427-497E-43	Sequence 54, Appl	1417	66.5	3.8	629	2	US-09-107-433-5042	Sequence 5042, Ap
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1342	66.5	3.8	324	1	US-08-047-413-11	Sequence 11, Appl	1420	66.5	3.8	644	2	US-08-506-296B-65	Sequence 65, Appl
1343	66.5	3.8	324	2	US-08-229-050-11	Sequence 11, Appl	1421	66.5	3.8	649	2	US-09-252-991A-20954	Sequence 20954, A
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1345	66.5	3.8	324	2	US-09-365-150-2	Sequence 2, Appli	1423	66.5	3.8	679	2	US-09-512-230-2	Sequence 2, Appli
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1353	66.5	3.8	400	1	US-08-488-135-14	Sequence 14, Appl	1431	66.5	3.8	771	2	US-09-634-238-229	Sequence 229, App
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1438	66.5	3.8	1016	2	US-10-197-220-95	Sequence 95, Appl
1439	66.5	3.8	1096	2	US-09-792-024-120	Sequence 120, App
1440	66.5	3.8	1120	2	US-09-792-024-95	Sequence 95, Appl
1441	66.5	3.8	1266	2	US-08-506-296B-4	Sequence 4, Appli
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1445	66	3.8	11	2	US-09-973-278-322	Sequence 322, App
1446	66	3.8	160	1	US-08-448-438-5	Sequence 5, Appli
1447	66	3.8	227	1	US-08-458-023B-4	Sequence 4, Appli
1448	66	3.8	242	2	US-09-107-433-4238	Sequence 4238, Ap
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1458	66	3.8	583	2	US-08-941-445A-13	Sequence 13, Appl
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1460	66	3.8	597	1	US-08-785-396-12	Sequence 12, Appl
1461	66	3.8	597	2	US-10-061-269-12	Sequence 12, Appl
1462	66	3.8	632	2	US-09-902-540-11147	Sequence 11147, A
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1470	66	3.8	886	2	US-09-769-787-126	Sequence 126, App
1471	66	3.8	939	2	US-09-854-845-16	Sequence 16, Appl
1472	66	3.8	941	2	US-09-074-658-75	Sequence 75, Appl
1473	66	3.8	942	2	US-09-489-039A-13982	Sequence 13982, A
1474	66	3.8	943	2	US-09-056-556-204	Sequence 204, App
1475	66	3.8	943	2	US-09-072-596-199	Sequence 199, App
1476	66	3.8	943	2	US-09-477-135A-131	Sequence 131, App
1477	66	3.8	943	2	US-09-072-967-204	Sequence 204, App
1478	66	3.8	943	2	US-10-193-002-199	Sequence 199, App
1479	66	3.8	943	2	US-10-084-843-204	Sequence 204, App
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1482	66	3.8	1049	2	US-09-854-845-2	Sequence 2, Appli
1483	66	3.8	1078	2	US-09-854-845-8	Sequence 8, Appli
1484	66	3.8	1089	2	US-09-662-254B-18	Sequence 18, Appl
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1486	66	3.8	1136	2	US-09-854-845-12	Sequence 12, Appl
1487	66	3.8	1151	2	US-09-854-845-10	Sequence 10, Appl
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1489	66	3.8	1289	1	US-08-322-760A-2	Sequence 2, Appli
1490	66	3.8	1289	2	US-09-236-949-2	Sequence 2, Appli
1491	66	3.8	1584	2	US-09-457-040B-27	Sequence 27, Appl
1492	66	3.8	2362	2	US-09-949-016-8985	Sequence 8985, Ap
1493	66	3.8	4544	1	US-08-469-486-52	Sequence 52, Appl
1494	66	3.8	4544	1	US-08-469-658-52	Sequence 52, Appl
1495	65.5	3.7	164	2	US-09-893-737-20	Sequence 20, Appl
1496	65.5	3.7	194	2	US-09-570-856B-24	Sequence 24, Appl
1497	65.5	3.7	225	1	US-08-886-765-2	Sequence 2, Appli
1498	65.5	3.7	225	2	US-09-115-660-2	Sequence 2, Appli
1499	65.5	3.7	234	2	US-09-583-110-2673	Sequence 2673, Ap
1500	65.5	3.7	317	2	US-08-996-139-13	Sequence 13, Appl

ALIGNMENTS

Qy	1	MNQLSFLFLFIATTRGWS	TD	EANTYFK	EWTCSSSPSLPR	SCKEIK	DECP	SAFDGLYFLRT	60																		
Db	1	MNQLSFLFLFIATTRGWS	TD	EANTYFK	EWTCSSSPSLPR	SCKEIK	DECP	SAFDGLYFLRT	60																		
Qy	61	ENGVIYQTFCDMTSGGGW	TL	VASVH	ENDMRGKCTVGD	RWSSQ	QGSKADY	PEGDGNWANY	120																		
Db	61	ENGVIYQTFCDMTSGGGW	TL	VASVH	ENDMRGKCTVGD	RWSSQ	QGSKADY	PEGDGNWANY	120																		
Qy	121	NTFGSAEAATSDDYKNP	GY	YDIQAKDLGIWHV	PNKSPM	QHWNR	SSLRLRY	TD	TGFLQTLG	180																	
Db	121	NTFGSAEAATSDDYKNP	GY	YDIQAKDLGIWHV	PNKSPM	QHWNR	SSLRLRY	TD	TGFLQTLG	180																	
Qy	181	HNLFGIYQKYPVKYGE	K	WC	KT	D	NGP	VP	IPVVYDFG	DAQKTASY	SPY	Q	RE	FTAG	VFQFRV	240											
Db	181	HNLFGIYQKYPVKYGE	K	WC	KT	D	NGP	VP	IPVVYDFG	DAQKTASY	SPY	Q	RE	FTAG	VFQFRV	240											
Qy	241	FNNERAANALCAGMR	V	T	GC	NT	EHHC	IG	GGG	YFP	EAS	P	QC	GD	FS	GS	FD	WS	GY	G	TH	V	G	Y	S	S	300
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; Patent No. 6913919
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; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PlC53
; CURRENT APPLICATION NUMBER: US/09/991,181
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;	PRIOR FILING DATE:	1998-07-07
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;	PRIOR FILING DATE:	1998-07-09

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RESULT 3
 ; Sequence 414, Application US/09990444
 ; Patent No. 6930170
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
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 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2730PlC19
 ; CURRENT APPLICATION NUMBER: US/09/990,444
 ; CURRENT FILING DATE: 2001-11-14
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; PRIOR FILING DATE: 1998-07-09

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RESULT 4

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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
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; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089600

Best Local Similarity 99.7%; Pred. No. 1.5e-164;		
Matches 312;	Conservative 0;	Mismatches 1; Indels 0; Gaps 0;
QY	1	MNQLSFLFLFIATTRGWSTDEANTYFKEWTCSSSPSLPRSCKEIKDECPSAFDGLYFLRT 60
Db	1	MNQLSFLFLFIATTRGWSTDEANTYFKEWTCSSSPSLPRSCKEIKDECPSAFDGLYFLRT 60
QY	61	ENGVIYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDWSSQQGSKADYPEGDGNWANY 120
Db	61	ENGVIYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDWSSQQGSKAVYPEGDGNWANY 120
QY	121	NTFGSAEAATSDDYKNPGYDIQAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLG 180
Db	121	NTFGSAEAATSDDYKNPGYDIQAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLG 180
QY	181	HNLFGIYQKYPVKYGEKGCWTDNGPVI PVVYDFGDAQKTASYSPYQGOREFTAGFVQFRV 240
Db	181	HNLFGIYQKYPVKYGEKGCWTDNGPVI PVVYDFGDAQKTASYSPYQGOREFTAGFVQFRV 240
QY	241	FNNERAANALCAGMRVTGCNTEHHHCIGGGYFPEASPOCCGDFSGFDWSGYGTHVGYS 300
Db	241	FNNERAANALCAGMRVTGCNTEHHHCIGGGYFPEASPOCCGDFSGFDWSGYGTHVGYS 300
QY	301	REITEAAVLLFYR 313
Db	301	REITEAAVLLFYR 313

RESULT 8
 US-09-973-278-156
 ; Sequence 156, Application US/09973278
 ; Patent No. 6924354
 ; GENERAL INFORMATION:
 ; APPLICANT: Fischer et al.
 ; TITLE OF INVENTION: 123 Human Secreted Proteins
 ; FILE REFERENCE: PZ010P2
 ; CURRENT APPLICATION NUMBER: US/09/973,278
 ; CURRENT FILING DATE: 2001-10-10
 ; PRIOR APPLICATION NUMBER: 60/239,899
 ; PRIOR FILING DATE: 2000-10-13
 ; PRIOR APPLICATION NUMBER: 09/227,357
 ; PRIOR FILING DATE: 1999-01-08
 ; PRIOR APPLICATION NUMBER: PCT/US98/13684
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/051,926
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/052,793
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,925
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,929
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/052,803
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/052,732
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,931
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,932
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,916
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,930
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,918
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,920
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/052,733
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/052,795
 ; PRIOR FILING DATE: 1997-07-08
 ; PRIOR APPLICATION NUMBER: 60/051,919

QY 301 REITEAAVLLFYR 313
Db 301 REITEAAVLLFYR 313

RESULT 9

US-09-227-357-155
; Sequence 155, Application US/09227357
; Patent No. 6342581
; GENERAL INFORMATION:
; APPLICANT: Fischer et al.
; TITLE OF INVENTION: 123 Human Secreted Proteins
; FILE REFERENCE: P2010P1
; CURRENT APPLICATION NUMBER: US/09/227,357
; CURRENT FILING DATE: 1999-01-08
; EARLIER APPLICATION NUMBER: PCT/US98/13684
; EARLIER FILING DATE: 1998-07-07
; EARLIER APPLICATION NUMBER: 60/051,926
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,793
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,925
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,929
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,803
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,732
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,931
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,932
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,930
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,918
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,920
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,733
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,795
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,919
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,928
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/055,722
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,723
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,948
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,949
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,953
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,950
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,947
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,964
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/056,360
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,684
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,984
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,954

; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/058,785
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,664
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,660
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,661
; EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (49)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (167)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (314)
; OTHER INFORMATION: Xaa equals stop translation
; US-09-227-357-155

Query Match 99.2%; Score 1733; DB 2; Length 314;
Best Local Similarity 99.4%; Pred. No. 4.7e-164;
Matches 311; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MNQLSFLFLIATTRGWSWSTDEANTYFKETWCSSSPSLPRSCKEIKDECPSAFDGLYFLRT 60
Db 1 MNQLSFLFLIATTRGWSWSTDEANTYFKETWCSSSPSLPRSCKEIKDECPSAFDGLYFLRT 60

QY 61 ENGVIYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDWRSSQQGSKADYPEGDGNWANY 120
Db 61 ENGVIYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDWRSSQQGSKADYPEGDGNWANY 120

QY 121 NTFGSAEAATSDDYKNPGYYDIQAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLG 180
Db 121 NTFGSAEAATSDDYKNPGYYDIQAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLG 180

QY 181 HNLFGIYQKYPVKYGEKCKWTNDGPNVIVYDFGDAQKTASYSPYQREFTAGFVQFRV 240
Db 181 HNLFGIYQKYPVKYGEKCKWTNDGPNVIVYDFGDAQKTASYSPYQREFTAGFVQFRV 240

QY 241 FNNERAANALCAGMRVTGCTNTEHHHCIGGGYFPEASPQQCGDFSGFDWSGYGTHVGYSSS 300
Db 241 FNNERAANALCAGMRVTGCTNTEHHHCIGGGYFPEASPQQCGDFSGFDWSGYGTHVGYSSS 300

QY 301 REITEAAVLLFYR 313
Db 301 REITEAAVLLFYR 313

RESULT 10

US-09-709-677-6
; Sequence 6, Application US/09709677
; Patent No. 6524820
; GENERAL INFORMATION:
; APPLICANT: Pierce, J. M.
; Moremen, Kelley W.
; Lee, Jin-Kyu
; TITLE OF INVENTION: Lectins and Coding Sequences
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado

STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICANT: PatentIn Release #1.0, Version #1.30
FILING DATE: 04-JUN-1998
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/048,507
FILING DATE: 04-JUN-1998
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 40-97
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 313 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-124-758-2

Query Match 59.8%; Score 1044.5; DB 2; Length 313;
Best Local Similarity 61.7%; Pred. No. 1.5e-95;
Matches 192; Conservative 36; Mismatches 74; Indels 9; Gaps 2;
QY 7 LLFLIATTRGSTD-----EANTYFKWTCSSPSLPRSCKEIKDECPSAFDGLYFLRTE 61
Db 6 LLLLVGTGLSQCDPVVIVASKNMVKQLDCKF----RNCKEIKDSNEEAQDGIYTLTSP 61
QY 62 NGVIYQTFCDMTSGGGWTLVASVHENDMRGKCTVGDWRSSQOGSKADYPEGDNWANYN 121
Db 62 DGISYQTFCDMTTNGGGWTLVASVHENNMAGKCTIGDRWSSQOGNRADYPEGDNWANYN 121
QY 122 TFGSAEAATSDDYKNPGYYDIOAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLGH 181
Db 122 TFGSAGGATSDDYKNPGYYDIEAYNLGVHVPNKTPLSVWRNSSLQRYRTDGLFKHGG 181
QY 182 NLFGIYQKYPVKYGEKGCWTDNGPVPVYDFGDAQKTASYSPYQGREFTAGFVQFRVF 241
Db 182 NLFLYRIYPVKYGIGSCSKDSGFTVPVYDLGSANLTASFYSPGFRSQFTPGYIQRP 241
QY 242 NNERAANALCAGMRVTGCNTEHHCIGGGYFPEASPOQCGDFSGFDWSGYGTHVGYSSSR 301
Db 242 NTEKAALALCPGMKMSCNVEHVCIGGGYFPEADPRQCGDFAAYDFNGYGTCKFNSAGI 301
QY 302 EITEAAVLLFY 312
Db 302 EITEAAVLLFY 312

RESULT 13
US-09-709-677-2
Sequence 2, Application US/09709677
Patent No. 6524820
GENERAL INFORMATION:
APPLICANT: Pierce, J. M.
Moremen, Kelley W.
Lee, Jin-Kyu
TITLE OF INVENTION: Lectins and Coding Sequences
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder

STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/709,677
FILING DATE: 09-No. 6524820-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/048,507 and US 09/124,758
FILING DATE: 04-JUN-1997 and 04-JUN-1998, respectively.
ATTORNEY/AGENT INFORMATION:
NAME: Yoo-Warren, Heeja
REGISTRATION NUMBER: 45,495
REFERENCE/DOCKET NUMBER: 40-97a
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 313 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-709-677-2

Query Match 59.8%; Score 1044.5; DB 2; Length 313;
Best Local Similarity 61.7%; Pred. No. 1.5e-95;
Matches 192; Conservative 36; Mismatches 74; Indels 9; Gaps 2;
QY 7 LLFLIATTRGSTD-----EANTYFKWTCSSPSLPRSCKEIKDECPSAFDGLYFLRTE 61
Db 6 LLLLVGTGLSQCDPVVIVASKNMVKQLDCKF----RNCKEIKDSNEEAQDGIYTLTSP 61
QY 62 NGVIYQTFCDMTSGGGWTLVASVHENDMRGKCTVGDWRSSQOGSKADYPEGDNWANYN 121
Db 62 DGISYQTFCDMTTNGGGWTLVASVHENNMAGKCTIGDRWSSQOGNRADYPEGDNWANYN 121
QY 122 TFGSAEAATSDDYKNPGYYDIOAKDLGIWHVPNKSPMQHWRNSSLLRYRTDTGFLQTLGH 181
Db 122 TFGSAGGATSDDYKNPGYYDIEAYNLGVHVPNKTPLSVWRNSSLQRYRTDGLFKHGG 181
QY 182 NLFGIYQKYPVKYGEKGCWTDNGPVPVYDFGDAQKTASYSPYQGREFTAGFVQFRVF 241
Db 182 NLFLYRIYPVKYGIGSCSKDSGFTVPVYDLGSANLTASFYSPGFRSQFTPGYIQRP 241
QY 242 NNERAANALCAGMRVTGCNTEHHCIGGGYFPEASPOQCGDFSGFDWSGYGTHVGYSSSR 301
Db 242 NTEKAALALCPGMKMSCNVEHVCIGGGYFPEADPRQCGDFAAYDFNGYGTCKFNSAGI 301
QY 302 EITEAAVLLFY 312
Db 302 EITEAAVLLFY 312

RESULT 14
US-09-646-693-4
Sequence 4, Application US/09646693
Patent No. 6635255
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine Elvire Marie
APPLICANT: Cassart, Jean-Pol
APPLICANT: Coche, Thierry
APPLICANT: Vinals-Bassols, Carlota
TITLE OF INVENTION: CASB414:ANTIGEN OVEREXPRESSED IN SEVERAL
TITLE OF INVENTION: TUMOURS
FILE REFERENCE: BC45206
CURRENT APPLICATION NUMBER: US/09/646,693


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; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: PCT/EP99/01893
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 127
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-646-693-4

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Query Match	39.0%;	Score 681;	DB 2;	Length 127;
Best Local Similarity	96.0%;	Pred. No. 6.3e-60;		
Matches 121; Conservative	2;	Mismatches 3;	Indels 0;	Gaps 0;

Qy 188 QKYPVKYGEKGKCWTDNGPVPVVDYDFGDAKTASYSPYGQREFTAGFQFRVFNNERAA 247
:
Dd 2 RNFPVKYGEKGKCWTDNGPVPVVDYDFASAKTASYSPYGQREFTAGFQFRVFNNERAA 61

Qy		248	NALCAGMRVTGCNTEHHCI	GGGYFPEAS	PQCDFSGDWSGYGTHVGYSSSREITEAA	307
D _b		62	NALCAGMRVTGCNTEHHCI	GGGYFPEAS	PQCDFSGDWSGYGTHVGYSSSREITEAA	121

Qy	308	VLLFYR	313
Db	122	VLLFYR	127

```

RESULT 15
US-09-976-3907
; Sequence 3907, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 3907
; LENGTH: 142
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -26..-1
US-09-621-976-3907

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Query Match	30.0%	Score 524;	DB 2;	Length 142;
Best Local Similarity	75.6%	Pred. No. 3.le-44;		
Matches 102;	Conservative	10;	Mismatches 19;	Indels 4;
				Gaps 3;

Qy		1	MNQLSFLFLIATTRGWSTDEANTYF--KEW-TCS-SSPSLPRSCIKIDECPSAFDGLY	56
	:		: :	:
Dd		8	MTRLCLFLFFSVATSGCASAASSLEMLSRFETCAFSFSSLPRSCIKERCHSAGDGLY	67

	Qy	57 FLRTENGVIYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDRWSSQQSKADYPEGDGN	116
	Dd	68 FLRTRNGVVYIQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDRWSSQQGNKADYPEGDGN	127

Qy	117	WANYN	TFGSAE	AATS	131
Db	128	WANYN	TFGSAE	AATS	142

Search completed: February 8, 2006, 19:43:50
Job time : 64 secs

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